85-1129/

Canadian Data Report Of Hydrography and Ocean Sciences

Data reports provide a medium for the documentation and dissemination of data in a form directly useable by the scientific and engineering communities. Generally, the reports contain raw and/or analyzed data but will not contain interpretations of the data. Such compilations commonly will have been prepared in support of work related to the programs and interests of the Ocean Science and Surveys (OSS) sector of the Department of Fisheries and Oceans.

Data reports are not intended for general distribution and the contents must not be referred to in other publications without prior written authorization from the issuing establishment. The correct citation appears above the abstract of each report. Data reports are abstracted in *Aquatic Sciences and Fisheries Abstracts* and indexed in the Department's annual index to scientific and technical publications.

Data reports are produced regionally but are numbered nationally. Requests for individual reports will be filled by the issuing establishment listed on the front cover and title page. Out of stock reports will be supplied for a fee by commercial agents.

Regional and headquarters establishments of Ocean Science and Surveys ceased publication of their various report series as of December 1981. A complete listing of these publications is published in the *Canadian Journal of Fisheries and Aquatic Sciences*, Volume 39: Index to Publications 1982. The current series, which begins with report number 1, was initiated in January 1982.

Rapport statistique canadien sur l'hydrographie et les sciences océaniques

Les rapports statistiques servent de véhicule pour la compilation et la diffusion des données sous une forme directement utilisable par les scientifiques et les techniciens. En général, les rapports contiennent des données brutes ou analysées, mais ne fournissent pas d'interprétation des données. Ces compilations sont préparées le plus souvent à l'appui de travaux liés aux programmes et intérêts du service des Sciences et levés océaniques (SLO) du ministère des Pêches et des Océans.

Les rapports statistiques ne sont pas destinés à une vaste distribution et leur contenu ne doit pas être mentionné dans une publication sans une autorisation écrite préalable de l'établissement auteur. Le titre exact paraît au-dessus du résumé de chaque rapport. Les rapports statistiques sont résumés dans la revue *Résumés des sciences halieutiques et aquatiques*, et ils sont classés dans l'index annuel des publications scientifiques et techniques du Ministère.

Les rapports statistiques sont produits à l'échelon régional, mais numérotés à l'échelon national. Les demandes de rapports seront satisfaites par l'établissement auteur dont le nom figure sur la couverture et la page du titre. Les rapports épuisés sont fournis contre rétribution par des agents commerciaux.

Les établissements des Sciences et levés océaniques dans les régions et à l'administration centrale ont cessé de publier leurs diverses [illegible]ries de rapports en décembre 1981. Une liste complète de ces publications figure dans [illegible]lume 39, Index des publications 1982, du *Journal canadien des sciences halieutic[illegible]uatiques*. La série actuelle a commencé avec la publication du rapport num[illegible]nvier 1982.

CANADIAN DATA REPORT OF
HYDROGRAPHY AND OCEAN SCIENCES
NO. 5

1984

ARCTIC DATA COMPILATION AND APPRAISAL
VOLUME 7
Canada Basin-Arctic Ocean: Physical Oceanography - Temperature, Salinity, Currents and Water Levels

by

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PREFACE

This group of data catalogues is produced by the Ocean Information Division at the Institute of Ocean Sciences. Joint government/industry contract projects have catalogued marine data sets focusing primarily upon oceanography and fisheries. Data set quality appraisals are provided to assist in establishing the usefulness of certain data for particular kinds of analyses and the confidence to be placed in interpretations. This will assist in setting priorities for incorporating the most useful data in the national Marine Environmental Data Service (MEDS) archives. Additional uses range from contributing to research planning, especially for climatological studies, to providing the best available resume of marine data sources for environmental assessments.

Accompanying the accelerating pace of Arctic offshore development activity is the need to review the sufficiency and suitability of available scientific information for design, regulatory and planning purposes. This review process has been divided into three phases: the first phase involves compilation and appraisal of all existing data sets; the second concentrates upon analysis of the suitability of the historical data for contributing to questions of particular interest; while the third relates primarily to analysis and/or interpretation of data and estimation of the scientific confidence in answering particular questions. This report represents the results of the first phase for the physical oceanographic data of the Canada Basin and surrounding waters.

Alan B. Cornford
Scientific Editor
Arctic Data Compilation
and Appraisal Series

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Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 7) 624 p.

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ABSTRACT

J.R. Birch, D.B. Fissel, A.B. Cornford and H. Melling. Arctic Data Compilation and Appraisal. Volume 7. Canada Basin-Arctic Ocean: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 7) 642 p.

This volume is one of a group of catalogues designed to compile and appraise marine data sets for the Canadian Arctic. For user convenience, the group has been organized with its subject matter divided into three general disciplines: physics, chemistry and biology. The Arctic has been arbitrarily divided into seven geographical areas incorporating, where possible, major oceanographic regions. The format throughout has been structured to facilitate comparison among subjects and regions. With such a large undertaking it is not possible to provide all reports at once. Therefore catalogues which are presently available in the series are indicated on the inside back cover of each volume.

Data collection is a continuing process and further updates of the catalogues are planned. Readers are requested to submit corrections and additions by writing the issuing establishment. Such corrections will be incorporated in on-line computerized data set listings and will be continuously available upon request.

SOMMAIRE

J.R. Birch, D.B. Fissel, A.B. Cornford and H. Melling. Arctic Data Compilation and Appraisal. Volume 7. Canada Basin-Arctic Ocean: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.
Can. Data Rep. Hydrogr. Ocean Sci. 5: (Vol. 7) 642 p.

Le présent volume fait partie d'un groupe de catalogues destinés à compiler et à évaluer les séries de données marines sur l'Arctique canadien. Pour plus de commodité, la question traitée est structurée en trois grandes disciplines: physique, chimie et biologie. L'Arctique a été divisé arbitrairement en sept régions géographiques qui englobent autant que possible les grandes régions océanographiques. Les catalogues sont présentés de façon à faciliter la comparaison entre les sujets et les régions. Le domaine est si vaste qu'il est impossible de fournir tous les catalogues en une seule fois. Les catalogues de la série actuellement disponibles sont indiqués à la fin de chaque volume à l'interieur de la couverture.

La collecte des données est un processus permanent et il est prévu de mettre à jour les catalogues par la suite. Les lecteurs sont invités à soumettre par écrit les corrections et les additions à l'établissement auteur. Ces corrections seront traitées en direct sur ordinateur et incorporées aux listages qui pourront être obtenus sur demande.

ACKNOWLEDGEMENTS

The authors would like to thank all those who aided in the preparation of this report. Most of the scientists we approached were very cooperative in supplying information. We wish to thank George Floyd of the Institute of Ocean Sciences, for the supervision of ID number assignment and map production; and Dr. L.G. Giovando and Mr. B. Smiley for reviewing the manuscript. Much appreciated assistance was received from Bill Griffiths of LGL; Dick Tripp, University of Washington; Bob Britch of NORTEC; Jack Colonell of Woodward - Clyde Consultants Ltd.; Lon Hachmeister, Scientific Application Inc.; Don Schell, University of Alaska; Jean Gagnon and Miriam Morrison, MEDS; Heywood Schyer, NODC; Sid Stillwaugh, NODC/NESDIS; Doug Martin, National Ocean Survey; and Mauri Pelto, OCSEAP. Special thanks are also due to the following Arctic Sciences Ltd. personnel: Sue Luscombe for data entry; Sheila Norton, Jeneen Oberski, Brian Clarke and Nancy Andrew for preparing the manuscript; and Rene Chave for computer program development.

SPECIAL CREDITS

L.S.C. Thomson - Technical editing.

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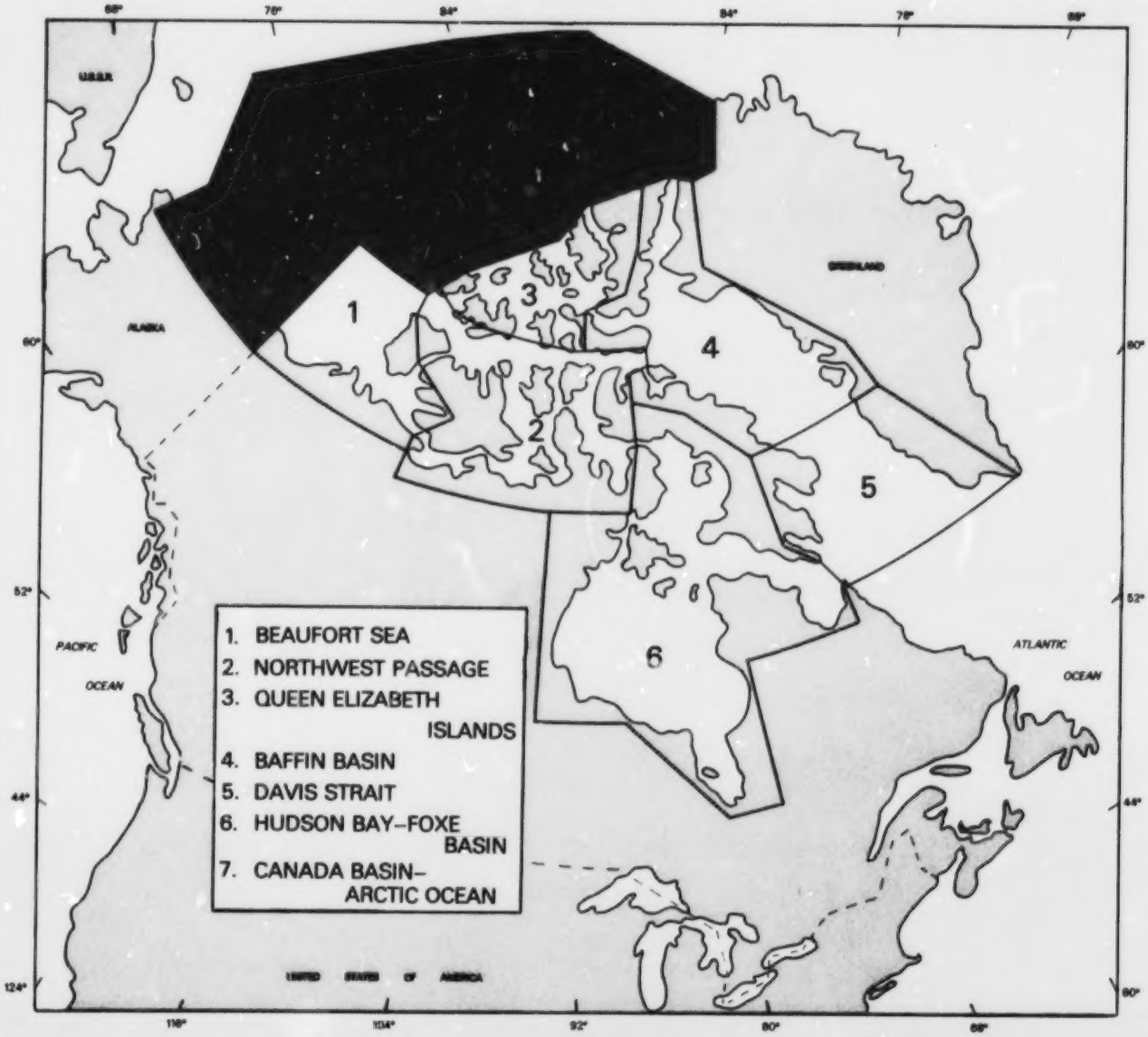
ARCTIC DATA COMPILATION AND APPRAISAL

VOLUME 7

CANADA BASIN-ARCTIC BASIN: PHYSICAL OCEANOGRAPHY



The area covered by this volume is shaded in the map above.

VOLUME 7: Canada Basin-Arctic Ocean: Physical Oceanography Temperature, Salinity, Currents and Water Levels

VOLUME ABSTRACT

This inventory contains a catalogue of physical oceanographic data collected in the Canada Basin and surrounding waters. Times and locations of measurements are listed and displayed graphically for temperature-salinity, current-meter, water-level and drifter data. Meteorological and ice information are not included. Yearly plots showing the locations of all measurements are included, as are indexes by area and measurement types. References and sources are listed for all data included in the inventory.

Key words: Canada Basin, Alaskan Beaufort Sea, currents, inventory, salinity, temperature, tides, water properties.

1. INTRODUCTION

In this report, the physical oceanographic data collected in the Canada Basin and surrounding waters, including the Alaskan Beaufort Sea, are catalogued. The information provided includes the time and locations of measurements, the parameters measured, and the type of instrumentation. The data themselves are not included but a source for the data and any reports or references are cited wherever possible. This will enable potential users of the data to determine what is available in their area of interest, or what data were collected using a specific measurement technique, and whether or not those data may be of value.

Approximately 340 data sets collected from 1883 through 1983 are catalogued and inventoried. Very few data were collected before 1948 (see Section 3, Figure 2), and these measurements are crude by today's standards.

The data inventory is ongoing. As new data and previously inaccessible data become available, they will be added to a computerized data base maintained at the Institute of Ocean Sciences, Sidney, B.C. Information concerning new data sets, older data sets which are not in the catalogue, or errors, should be submitted to the Ocean Information Section of the Institute of Ocean Sciences.

2. STUDY AREA

The study area is indicated by the non-shaded portions of Figure 1. The surface area is immense, about 2,000,000 km^2, or roughly the size of British Columbia, Alberta and Saskatchewan combined. Included are the portions of the Arctic Ocean between 28 and 180°W longitude, as well as the bordering continental slopes and shelves of northern Greenland, the Canadian archipelago and Alaska.

For the sake of completeness, all of the extensive AIDJEX (Arctic Ice Dynamics Joint Experiment 1975-1976) data have been inventoried, including those data acquired beyond the area of this study in the Canadian Beaufort Sea. Complete listings are provided in Section 11.4 and 11.5.

ARCTIC DATA COMPILATION AND APPRAISAL VOLUME 7
Canadian Basin-Arctic Ocean: Physical Oceanography — Temperature, Salinity, Current and Water Levels

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1984

CANADIAN DATA REPORT OF HYDROGRAPHY AND OCEAN SCIENCES NO. 5

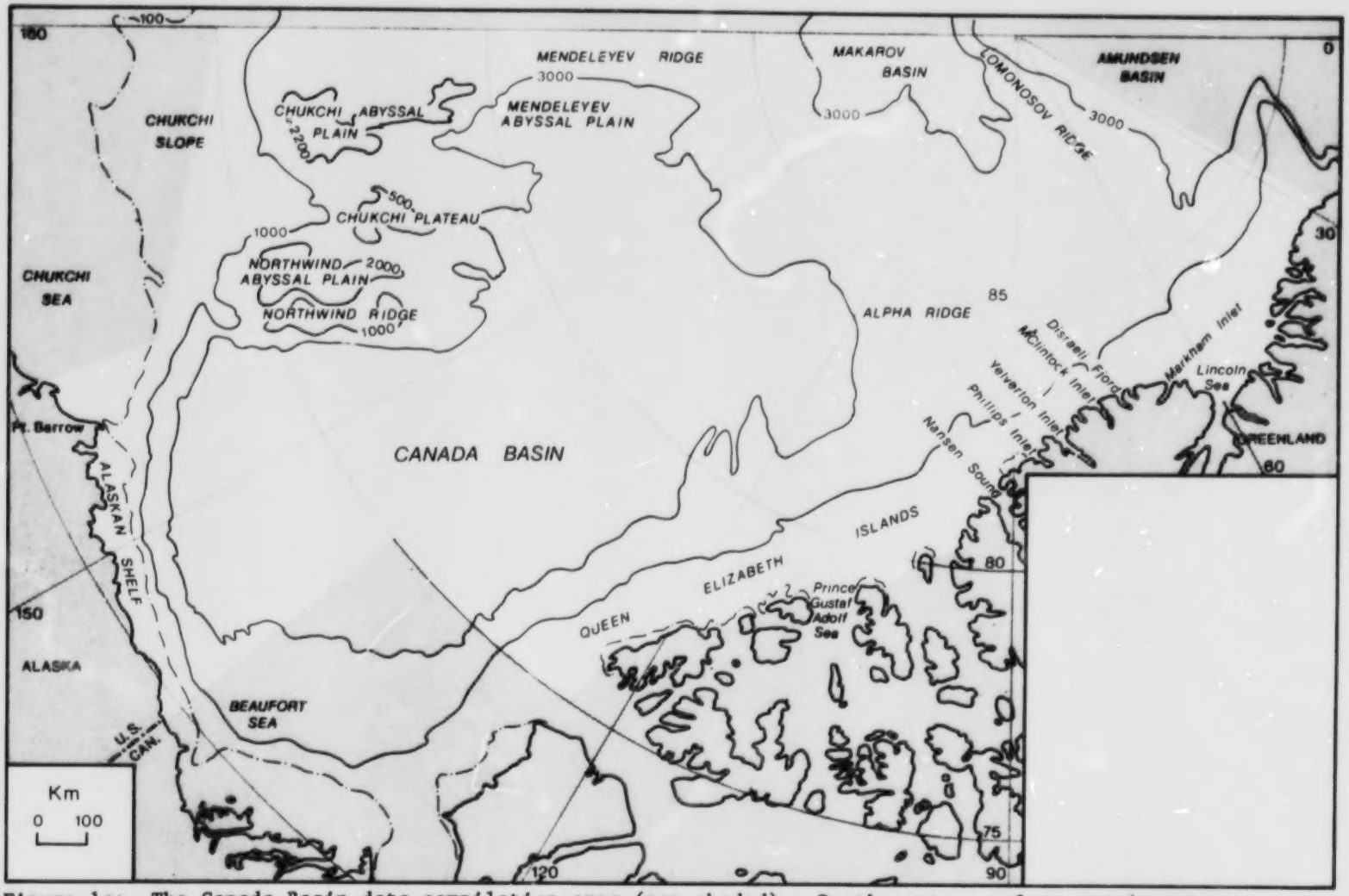

Figure 1a: The Canada Basin data compilation area (non-shaded). Depth contour values are in metres.

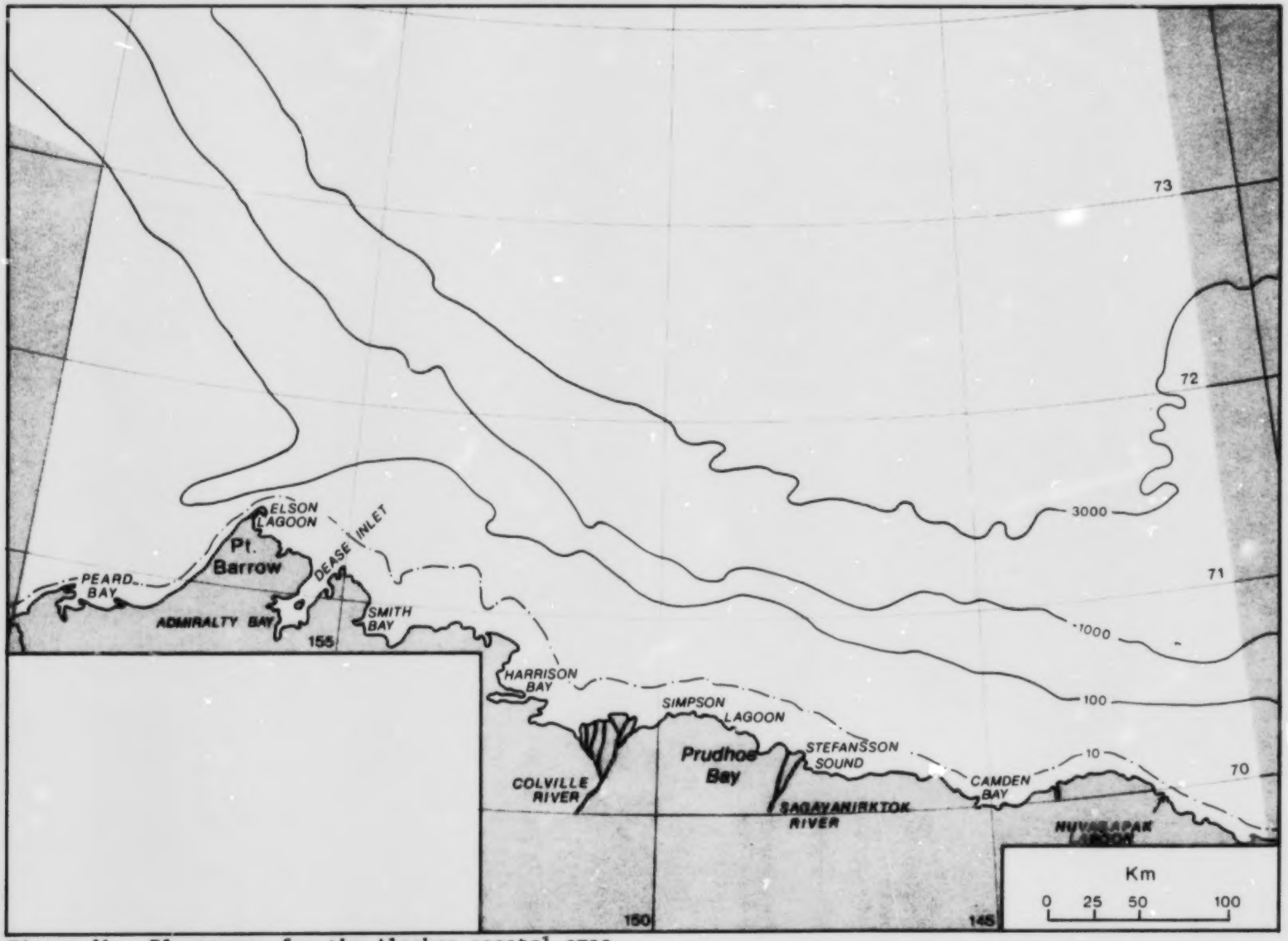

Figure 1b: Placenames for the Alaskan coastal area.

The major bathymetric feature is the Canada Basin, which comprises almost half the study area and has depths exceeding 3000 m. North of the Canada Basin are three submarine ridges, the Alpha, Mendeleyev and Lomonosov ridges. The latter rises to depths as shallow as 1300 m. The Makarov Basin lies between the Lomonosov and Mendeleyev ridges, and is separated from the Canada Basin by a sill of between 2000 and 2500 m depth. West of the Canada Basin lies the Chukchi Shelf and the Northwind Ridge/Chukchi Plateau extension. The study area also includes the Alaskan Beaufort Sea slope and shelf, as well as the coastal waters off the Queen Elizabeth Islands and northern Greenland.

Although the study area is immense, the amount of oceanographic data collected to the present has been limited by the harsh climate and the sea-ice which covers much of the area. Open water is confined largely to the coastal regions and to summer. The breadth of open water at the coast can vary from negligible to a few hundred kilometres offshore, depending on wind and melt conditions. Because of the ice coverage, data over most of the area have been obtained by landing aircraft on the ice, and from drifting ice stations. Only in the Alaskan coastal regions have surface vessels been effective in the collection of oceanographic data.

3. HISTORICAL DATA

Physical oceanographic data collection began in the late 1800's, with water-level data collected by early explorers. Starting in the late 1930's, expeditions were conducted in which the collection of oceanographic data was one of the main objectives (Figure 2). 1937 was the first year of Soviet drifting ice station activity. Such ice stations became permanent features in the Arctic Ocean following 1954. In the Alaskan Beaufort Sea coastal waters U.S. icebreakers were used to collect data, starting in the 1950's. The Americans and Canadians also used the ice island T-3 (often known as Fletcher's) as a base for offshore operation from 1952 through 1974 (Figure 8).

After the discovery of the Prudhoe Bay oil field in 1968, the rate of data collection increased significantly (Figure 2), largely due to requirements for engineering design and environmental impact assessment . The National Oceanic and Atmospheric Administration (NOAA) initiated the (Alaskan) Outer Continental Shelf Environmental Assessment Program (OCSEAP) in response to the need for environmental information in the lease areas on the Alaskan outer continental shelf. About the same time, University of Alaska involvement in marine studies in these areas increased. Many of these programs were NOAA/OCSEAP funded, along with the physical oceanographic programs of Prof. K. Aagaard and collaborators of the University of Washington. The main Arctic Ice Dynamics Joint Experiment (AIDJEX) of 1975-1976 increased the scientific data base immensely.

4. GENERAL REPORT LAYOUT AND USER INSTRUCTIONS

4.1 DATA SETS

The data are organized in sets, where each set consists of data of a common type taken on a single expedition or cruise, usually by a single institution or organization. Thus, unless otherwise noted, all the data within a single set are assumed to have been collected in a uniform manner and should conform to a common standard of measurement.

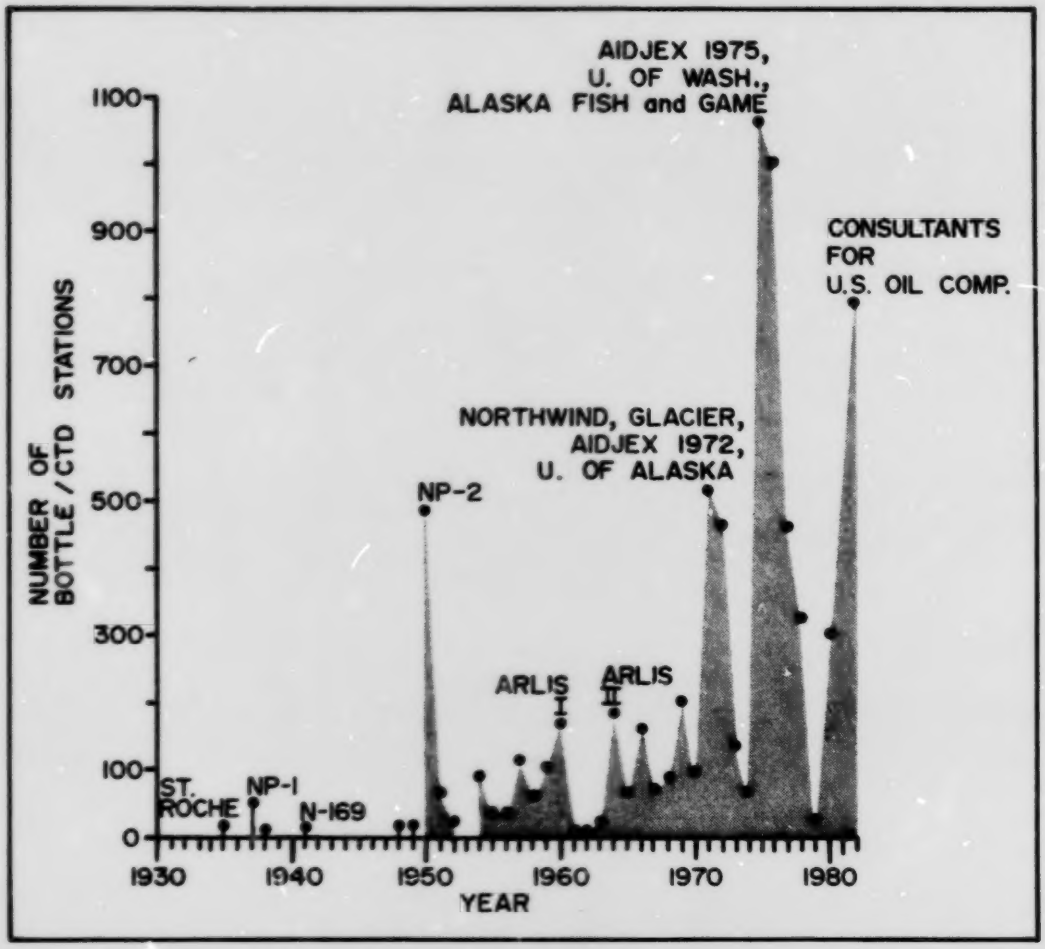

Figure 2: The level of oceanographic effort by year, as indicated by the number of bottle/CTD stations. Note that a large number of stations, occupied by Soviet investigators from the mid-1950's to the present, could not be included in the figure due to lack of detailed information.

Each data set has been assigned an identification number of the form yy-nnnn, where yy = last 2 digits of the year in which data were collected and nnnn = order of identification for that particular data set for that year (The one data set obtained prior to 1900 (1883) has been assigned the identifier 1883-1). The data set number is a unique identifier which applies throughout the entire series of inventories; any set identified, for example, as 72-0009 is the same data set no matter where the reference to it is made. Gaps may appear in the sequence of data set numbers in this inventory for a particular year, because each data set will not appear in every discipline and geographical area.

4.2 INVENTORY ORGANIZATION

Table 1 (Section 8) lists all the data sets in the inventory ordered by data set number. It provides a summary description of each set including the times, areas and methods of measurements. Table 1 also gives a listing of concurrent measurements from other disciplines.

Geographical and measurement type indexes are in Section 10. The sub-areas in the geographic index are shown on the maps in Figure 1. Section 10 also contains an index of references, ordered by data-set number. It is primarily an index of original data reports, although ancillary papers analyzing or discussing the data are listed if they came to our attention.

Measurement locations are plotted in a series of maps in Section 9. Eight different maps, all in Polar Stereographic projection, have been used to plot data. In most cases, the overall map of the entire study area is used, along with one or more of the enlarged maps. The coastlines have been smoothed, and small islands removed, to avoid clutter. Map specifications and a key to the symbols on the maps is presented at the beginning of Section 9.

Detailed listings of the times and locations of individual measurements are in Section 11. There is a separate listing for each data type. The beginning of Section 11 explains the format of the listings.

Data sets were rated according to the criteria in Section 5. The ratings are listed in Table 1. Appendix 1 contains comments explaining the reasons for low ratings, a list of any errors found in each data set, and any other pertinent remarks concerning the data. The comments are ordered by data-set number.

Section 6 contains a general description of the extent of the data available in this area. Sections 6.1 and 6.2 describe their geographical and seasonal distribution. Section 6.3 tabulates instances of repeated measurements in the same area, and instances where measurements were carried out simultaneously, in different areas, or by different agencies.

4.3 SAMPLE USE OF THE INVENTORY

A typical use of the inventory might go as follows:

1. Examine the maps in Section 9 for measurements during the year(s) of interest, and note the data-set numbers of interest.

2. Refer to Table 1 to find the range of measurement dates, measurement methods, accuracies and data sources.

3. If more specific information is required concerning the timing or location of individual measurements in the set, refer to Section 11.

4. Consult the reference index in Section 10 for works referring to or using the data.

5. DATA RATING, APPRAISAL

5.1 TYPES OF DATA

5.1.1 BOTTLE CAST DATA

These data consist of temperature and salinity measurements at discrete depths (ideally the international standard depths) by means of reversing thermometers and sampling bottles. Temperature accuracies of $\pm 0.01°C$ may be achieved by averaging two or more carefully read, well-calibrated thermometers. Some investigators have used hydrometers ($\pm 0.2°/oo$) and refractometers ($\pm 0.5°/oo$) for the determination of salinity, but up to 1960 salinity was usually obtained by titrating the water samples drawn from the bottles; replicate titrations in the hands of a good operator could yield results precise to $\pm 0.01°/oo$. In the 1960's, salinometers measuring salinity via the conductivity of the sample replaced titrations. A precision of $0.003°/oo$ can be obtained with the better instruments, although in the past, systematic errors of $\pm 0.02°/oo$ or more could be introduced by variations in the standard water used to calibrate these instruments. New international standards for salinity should eliminate the latter source of error (Lewis and Perkin, 1978).

5.1.2 CTD DATA

CTD data are data produced by in-situ profiling instruments variously called STD (salinity-temperature-depth), STP (salinity-temperature-pressure), CTD (conductivity-temperature-depth) or CTP (conductivity-temperature-pressure) profilers. Fundamentally, all are CTP devices; the variations in output and name depend solely upon the degree of internal data processing. All instruments perform the same basic function of measuring (more or less continuously) temperature and conductivity as a function of depth. The precision achievable with such devices depends upon the individual instrument. The best are capable of a precision of $\pm 0.005°C$ and $\pm 0.005°/oo$, although accuracy in salinity, until recently, was limited to approximately $\pm 0.02°/oo$ because of the inconsistencies in salinity standards and definitions (Walker and Chapman, 1973).

5.1.3 BATHYTHERMOGRAPH

The bathythermograph (BT) is a thermo-mechanical device which measures water temperature as a function of pressure. Information is produced as a trace on a smoked glass slide which can be read to an accuracy of $\pm 0.2°C$ and ± 2 m depth if the instrument is well calibrated. The BT was widely used in conjunction with reversing thermometers but has largely been superseded by the CTD.

5.1.4 SELF-RECORDING CURRENT METERS

By the 1970's oceanographers could practically and reliably place and recover self-recording current meters in the water column. In the Arctic, such meters are moored from the sea floor, or hung beneath the ice surface. Meters of this type generally record internally on magnetic tape (in some models photographic film or paper charts were used) or, rarely, telemeter data to a ship- or shore-receiving station. They generally provide time series of current speed and direction, and may have other sensors (for measuring temperature, pressure or conductivity) mounted as well. Current speed and direction are usually measured by one of two methods: either by a propeller or rotor for measuring speed and a vane for direction sensing, or by measuring two orthogonal components of the current speed. Component speeds may be measured by propellers, or by electromagnetic or acoustic speed sensors. Direction reference is provided either by a magnetic compass or in the case of instruments mounted from ships or from the ice, by using torsionally-rigid suspension materials which allow directional reference to be fixed at the surface. Commonly used instruments employing the propeller and vane system are the Aanderaa, Hydroproducts, Endeco and AMF Vector-Averaging current meters; those employing the component measuring system are the Cushing and Marsh-McBirney instruments (electromagnetic), the Neil Brown (acoustic), and the Davis-Weller (orthogonal propellers) instruments.

The precision and accuracy of current meters depend to a great degree both on the design of the instrument, and on the environment in which it is used. Serious problems are encountered if rotor-type meters are used in the wave zone. Calibration drift and sensor fouling can interfere with satisfactory operation of electromagnetic and acoustic sensors. The sampling frequency and integration period selected for the meter can also affect the accuracy of the record.

Special problems in direction measurement are encountered when using compasses in the Canadian Arctic and northern Canada Basin because of the weak horizontal component of the magnetic field due to the proximity of the magnetic pole. Directional accuracies are generally degraded unless the current meter is oriented at the surface via rigid coupling.

5.1.5 PROFILING CURRENT METERS

These current meters provide a series of point measurements of current speed and direction at several depths throughout the water column. Meters used for this purpose are generally of the propeller- or rotor-and-vane design, the oldest common example being the Ekman meter. Measurements usually are taken from the ice, or from an anchored ship in shallow water. In water too deep for anchoring, a very good positioning system is required to correct for ship movements. The directional precision of the measurements can be degraded by the proximity of the magnetic pole. Unless repeated profiles were taken so as to form a time series, this type of data was not generally catalogued.

5.1.6 SATELLITE-TRACKED DRIFTERS

Satellite-tracked drifters are a comparatively recent invention, dating from the early 1970's. Widespread use of these devices began after the launch of the Nimbus VI satellite carrying the Random Access Measurement System

(RAMS) in 1975. In early 1979, the TIROS-N satellite was launched activating System ARGOS which is now used to track all devices.

Both RAMS and System ARGOS compute position from the Doppler shift of a signal transmitted from the buoy to the satellite. On each pass of the satellite the position (and any other data being measured) is received and sent to a ground facility where the data are processed. The RAMS system produced positional accuracies of approximately ±2 km. Prior to summer, 1978, RAMS produced an average of 8 valid fixes per day in northern latitudes. During the remainder of 1978, the number of fixes per day declined to 4 and then to 2 by the end of the year. The ARGOS system has an average positional accuracy of ±1.2 km, and produces an average of 10 valid position fixes per day in northern latitudes (Fissel, 1980).

5.1.7 RADAR OR AIRCRAFT-TRACKED DRIFTERS

This type of drifter usually consists of a float (with or without a drogue) and a radar reflector or visual marker. These devices can be tracked visually or by radar from shore or from a ship or aircraft. The accuracies achievable depend upon the tracking system used, and can be very good if a sophisticated system is available. Data of this type are often limited in their coverage in space and time, and may have gaps resulting from bad weather.

5.1.8 WATER-LEVEL GAUGES

Water-level data are produced mainly by visual observation of tide staffs, by mechanical shore-mounted float-type gauges, or by bottom-mounted pressure gauges. The pressure gauges may be self-contained, or they may consist of a pressure sensor connected to a shore-mounted recording device. The mechanical gauges record by means of a pen on chart paper. The data are usually digitized at hourly intervals, resulting in a record with a resolution of approximately ±1 cm, and an accuracy of the order of ±5 to 10 cm. The resolution of the bottom pressure gauges varies from a millimetre to a centimetre, depending upon the instrument type and range. Sampling intervals generally vary between 5 and 60 minutes. Unless corrections are made, bottom-pressure records will also contain signals caused by variations in atmospheric pressure.

5.2 DATA RATING SCALE

5.2.1 RATING CRITERIA

The data appraisal in this inventory is intended to provide the reader with an indication of the quality of each data set and its suitability for comparison with other data sets. The appraisal was based primarily on documentation describing the methods used in collecting and processing the data and the investigator's estimate of its precision, accuracy and utility. Subsequent analyses of the data were also taken into account, i.e. if errors were found in a particular data set during a subsequent analysis, and the results were published, they were used in the assessment.

The information from the sources above was used to assign a numerical rating to each set. The rating system has five levels, defined as follows:

0: data are found to be wrong.

1: data suspect because of ill-defined doubts.

2: insufficient information, was not or could not be investigated.

3: data are internally consistent - patterns or trends within data probably real but comparison with other data sets may pose problems.

4: data are internally consistent and exhibit sufficient standardization that comparison with other 4 rated data should be possible.

5.2.2 ASSIGNMENT OF RATINGS

0 RATING

A data set received a zero rating if serious deficiencies in technique, or significant systematic errors occurred. A zero rating was also assigned if the documentation of the data set was lacking essential information (e.g. if the positions and times of measurements were not given) which no longer exists.[1]

1 RATING

A data set received a 1 rating if, either as part of a data report or in subsequent analysis and examination, the original or other investigators questioned the validity of the data without pinpointing specific errors. In general, a 1 rating was assigned if a data set exhibited an atypical distribution of values, or indicated unlikely physical processes, but contained no obvious errors. Such data sets require careful examination before use.

2 RATING

Ratings of 2 were given to data sets for which it was not possible to carry out an appraisal. Such cases include:

(i) Proprietary data, whose existence is known, but about which no details are available.

(ii) Data sets for which we were unable to obtain documentation, but know that data were collected.

3 RATING

Data received a 3 rating if they were internally consistent within the precision of the methods used to collect the data. Precision is a measurement of the degree of random fluctuation experienced when a measurement is

---

[1]Note that this definition of this number has been modified from that used in Volumes 1, 3 and 5 in order to emphasize that data sets assigned a 0 rating are either wrong or of very limited value due to lack of documentation.

repeated many times, while accuracy is the departure of the measurement (or the mean of a series made under controlled conditions) from the true value. Because oceanographic data are normally taken without replication and under uncontrolled conditions, data taken with instruments of a certain precision will have the same (or poorer) level of accuracy. An exception is the case of a series of temperature-salinity measurements taken within a water body of stable, well-defined characteristics, in which case the mean of the measurement series could provide a measurement more accurate than the precision.

Ratings of 3 were given to all data sets for which no evidence of errors beyond the precision given in Table 1 was found, but which did not satisfy each of the criteria required for a rating of 4 (see below). In some instances, the instrument and/or precision and accuracy were unknown; however the collecting agency used standardized methods. These data sets were generally awarded a 3 rating when there was no evidence suggesting deficiencies in the data.

Caution should be exercised when comparing two sets of 3-rated data, as their levels of precision may be quite different. The reader should consult both Table 1 and Appendix 1 for precision and error information.

4 RATING

Data received a rating of 4 if these data were measured to the precision available with modern methods described in Section 5.1; had no evidence of systematic or other errors recorded in the documentation; and were obtained using measurement instrumentation, methodology and techniques which provide data that can be related to national or international standards.

Since standards tend to change, ratings of 4 were only grudgingly awarded. In many cases, ratings of 3 were assigned because of lack of time and/or sufficient documentation to be certain that a rating of 4 was applicable. Some of these ratings may merit an increase to 4 after further study of the data has been made.

Of all the physical-oceanographic data that were inventoried, the bulk of the data is temperature/salinity measurements. Until the early 1960's, water samples were collected with bottle casts and salinity was determined by titration. During the 1960's, salinities were generally determined using conductivity bridges. From the late 1960's on, instruments which measured conductivity and temperature in situ (CTDs) became the standard. Salinity was then computed from the temperature and conductivity values.

CTDs with increased resolution have revealed gradations in salinity where previous chemical analyses indicated homogeneous water. Since both bottle and CTD data may have ratings of 3, caution must be used in any comparison.

Both methods of salinity determination depend on a standard (usually 35°/oo Copenhagen water); variability in the calibration of the instrumentation has in the past resulted in systematic errors of 0.02°/oo or more. In the past, replicate samples have been sent to various labs and the

salinities determined by these labs differed by 0.01 to 0.02°/oo.

A new, practical salinity scale, where waters of the same conductivity ratio have the same salinity, has been adopted (Lewis and Perkin, 1978); this reduces systematic errors in salinity. However, most of the historical data remains subject to a ±0.02°/oo accuracy limitation.

Current-meter data were judged by the instrument characteristics, response, and the deployment methods. The main causes of low ratings are directional errors due to inadequate compensation for the weak horizontal component of the earth's magnetic field, and contamination by mooring motion and wave orbital velocities.

6. SUMMARY OF DATA COVERAGE

6.1 SPATIAL COVERAGE, INCLUDING DATA DISTRIBUTION MAPS

The locations of temperature-salinity (Figure 3) and current-meter/water-level stations (Figure 4) reveal a much higher concentration of measurements over the Alaskan shelf/slope region than elsewhere. Most of these stations were occupied since 1970, to provide environmental data related to offshore oil exploration. The station distribution closely resembles the maximum extent of open water during the summer.

The hatching shows the area covered by the 1975-1976 AIDJEX project, during which extensive temperature-salinity and current data were obtained.

The station concentration offshore is much reduced from that along the Alaskan shelf. Most of the data here were obtained by drifting ice stations (mainly Soviet and U.S.) and also by aircraft landings. The movements of the drifting stations were largely governed by the Beaufort Gyre which produces a clockwise (anti-cyclonic) circulation about the Canada Basin. Ice stations tended to be established near the periphery of the gyre, accounting for the lack of data near the center of the Basin. Figure 5 is a composite of Soviet ice station trajectories illustrating the clockwise circulation. Note the surface divergence near 85°N, 120°W. Ice stations either turn clockwise and follow the Beaufort Gyre, or move east with the Transpolar Drift Stream.

Studies concentrating on the Lomonosov and Alpha ridges have resulted in relatively high station densities over these bathymetric features.

In contrast to the Alaskan Shelf, the shelf/slope region off the Queen Elizabeth Islands has been sparsely sampled.

6.2 SEASONAL COVERAGE, INCLUDING BI-MONTHLY MAPS

Temperature-Salinity Data

The seasonal distribution of physical oceanographic data collection peaks during July-August and reaches a minimum during the January-February period (Figure 6). This parallels the seasonal variation in total open water and in solar insolation. Particularly along the Alaskan nearshore, optimum conditions for data collection occur during summer when the polar pack has retreated from the shelf area (Figures 7g and 7h).

The monthly distribution of temperature-salinity data (Figure 7) at offshore locations is more uniform, because ice stations are generally occupied for long periods of time. For example, Ice Island T-3 was occupied off-and-on by various groups from 1952 to 1973 (Figure 8). In addition, Soviet investigators have had at least one ice station in operation continually since 1954 (see Section 12.2).

Current-Meter and Water-Level Data

The bi-monthly distribution of current-meter and water-level stations also peaks in July-August; however the ratio of maximum to minimum number of stations is not as large as for bottle/CTD stations (Figures 6 and 9). This is because current-meter and water-level gauges are moored for longer periods of time, generally on the order of months. Many are left over winter, to be recovered during favorable spring conditions.

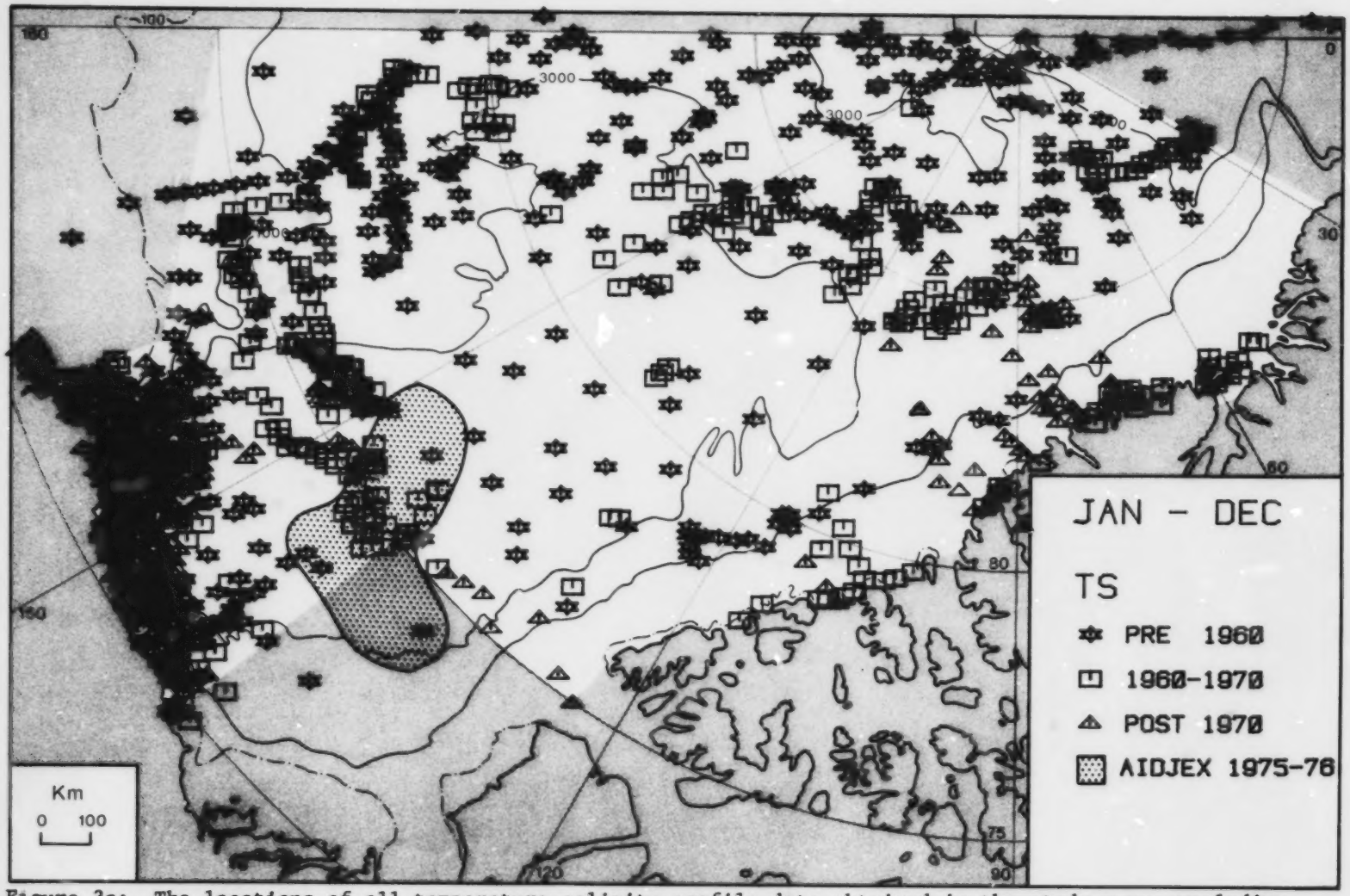

Figure 3a: The locations of all temperature-salinity profile data obtained in the study area, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

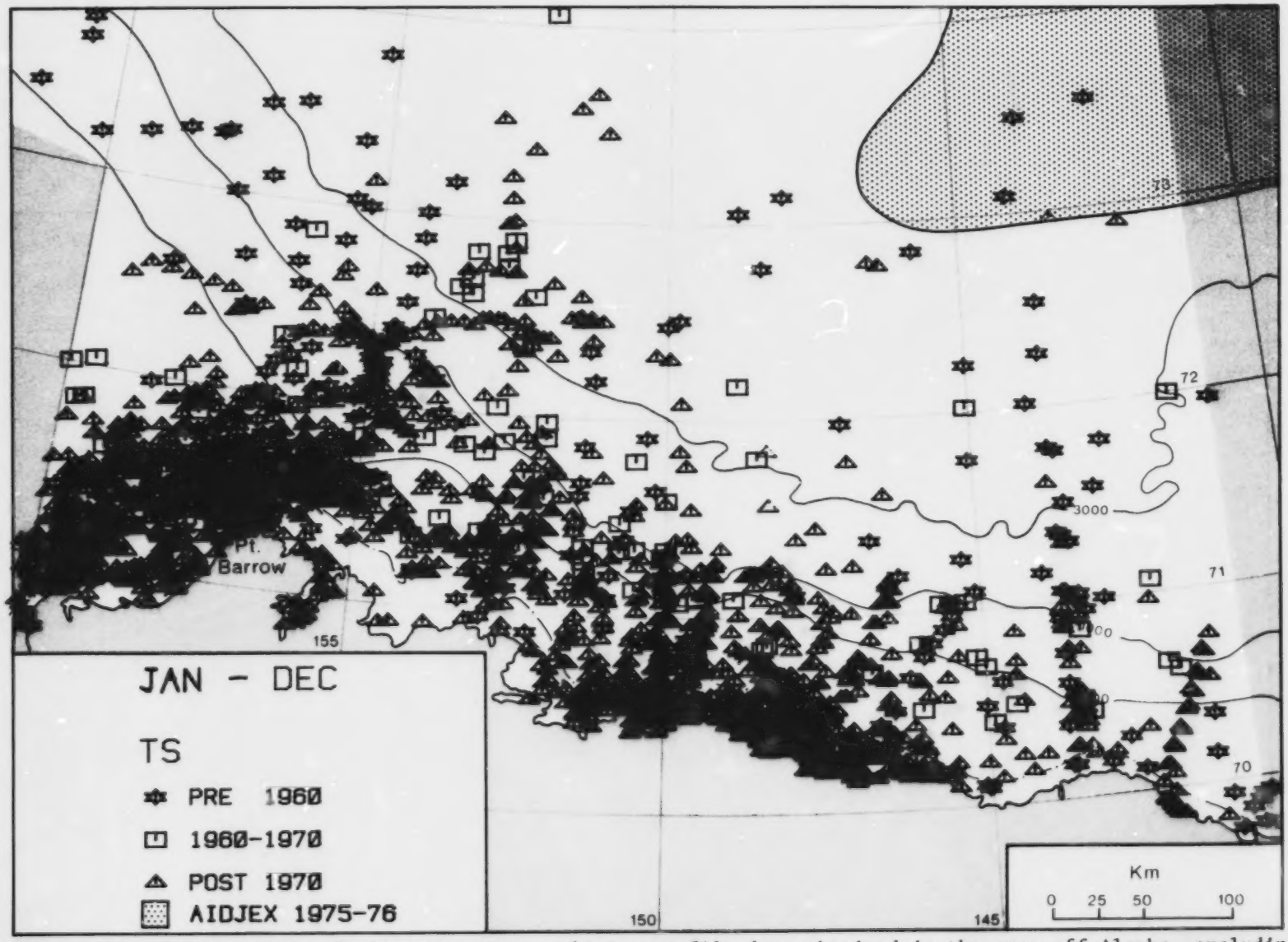

Figure 3b: The locations of all temperature-salinity profile data obtained in the area off Alaska, excluding data obtained by Soviet investigators and U.S. Oil companies for which locations are not available.

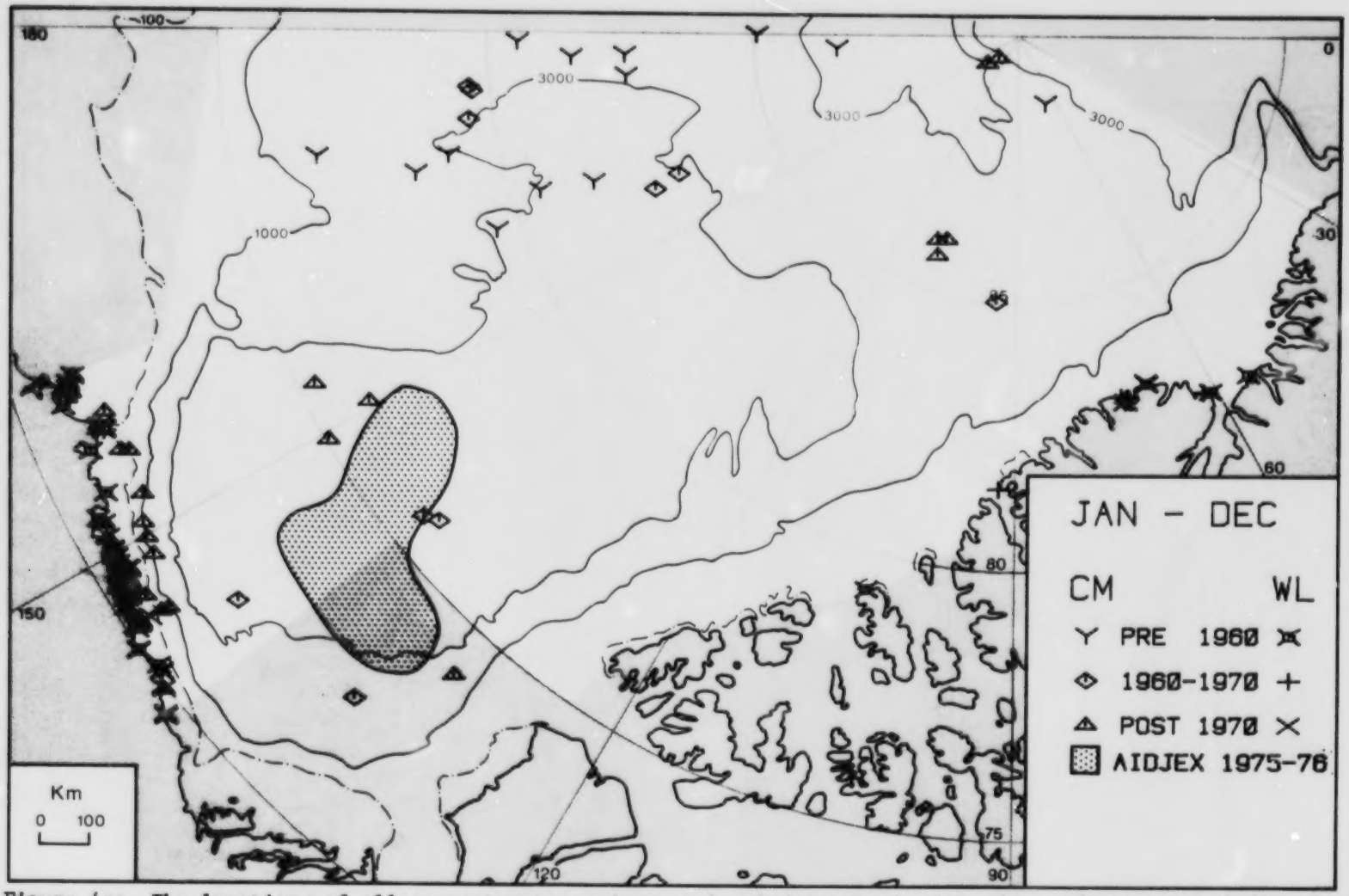

Figure 4a: The locations of all current-meter and water-level data obtained in the study area, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

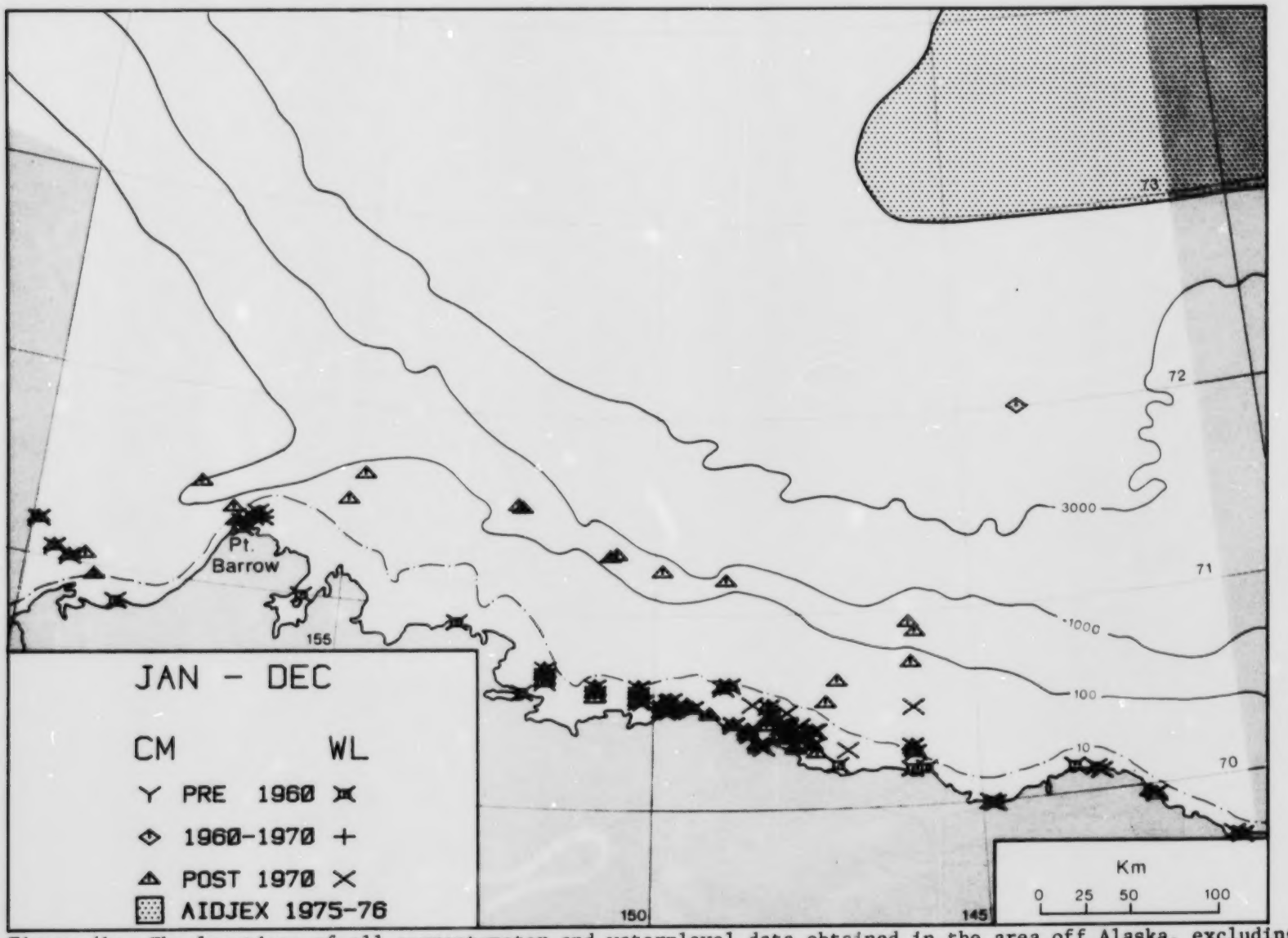

Figure 4b: The locations of all current-meter and water-level data obtained in the area off Alaska, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

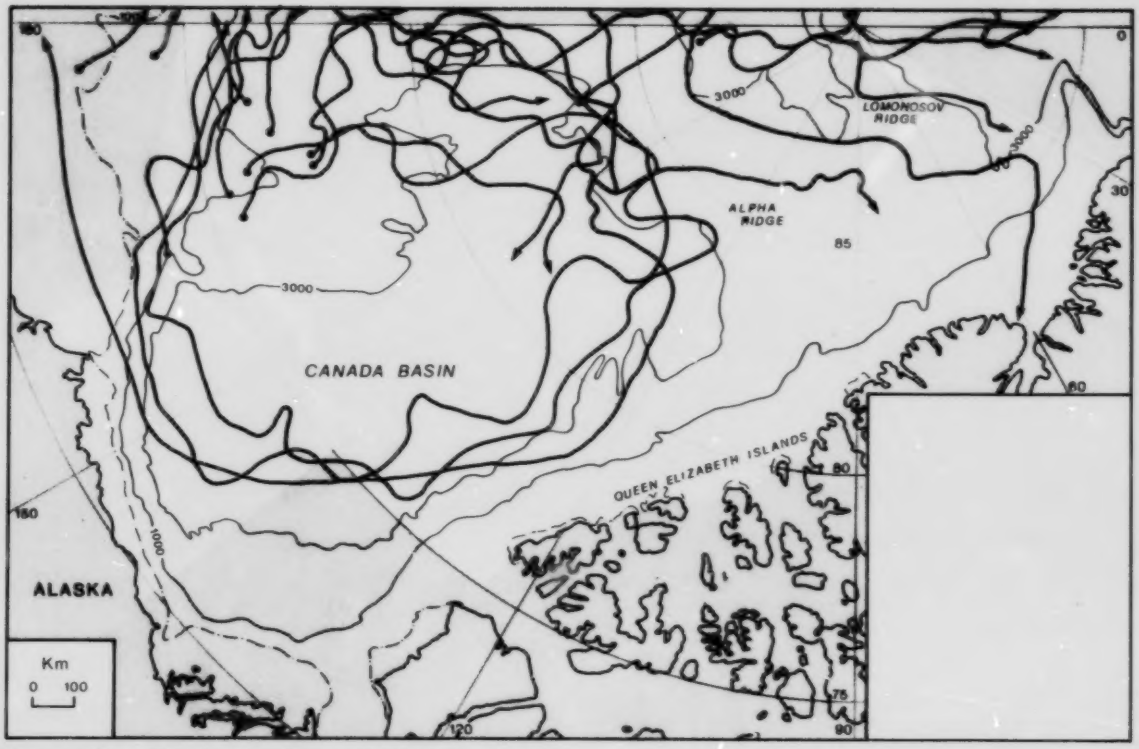

Figure 5: Trajectories of Soviet drifting ice stations from which oceanographic data were collected, 1937-1979 (after Gorshkov, 1983).

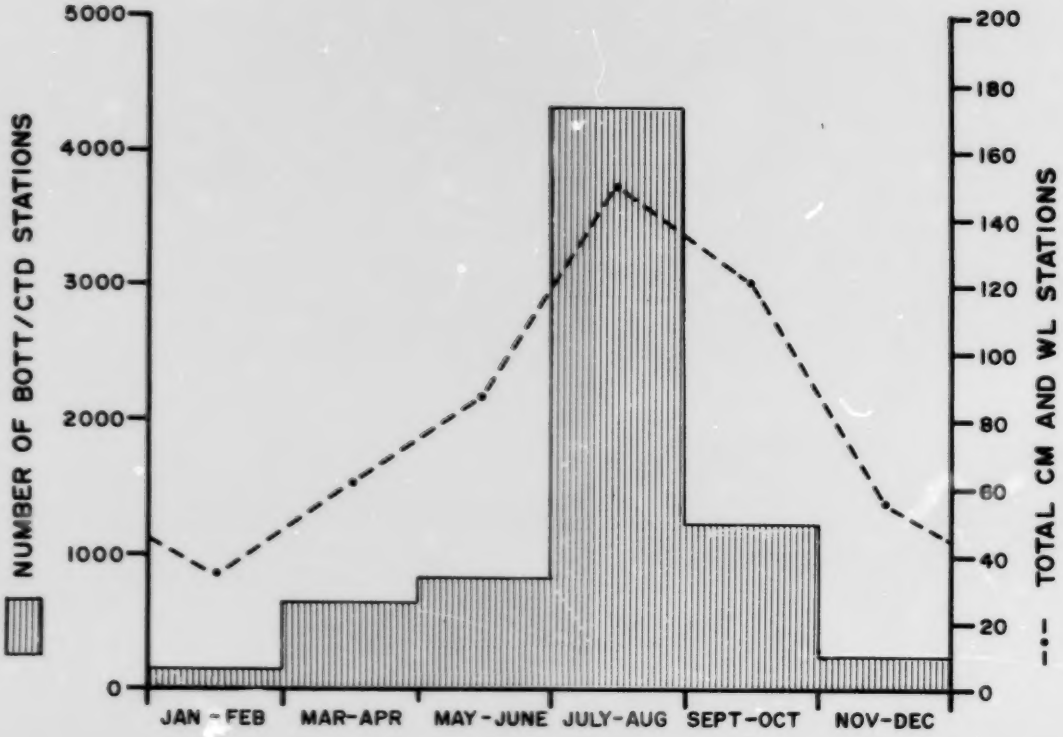

Figure 6: Bi-monthly distribution of bottle/CTD stations and current meter/water level stations, based on all catalogued data sets between 1935 and 1983. (The 1975-1976 AIDJEX data are not included.)

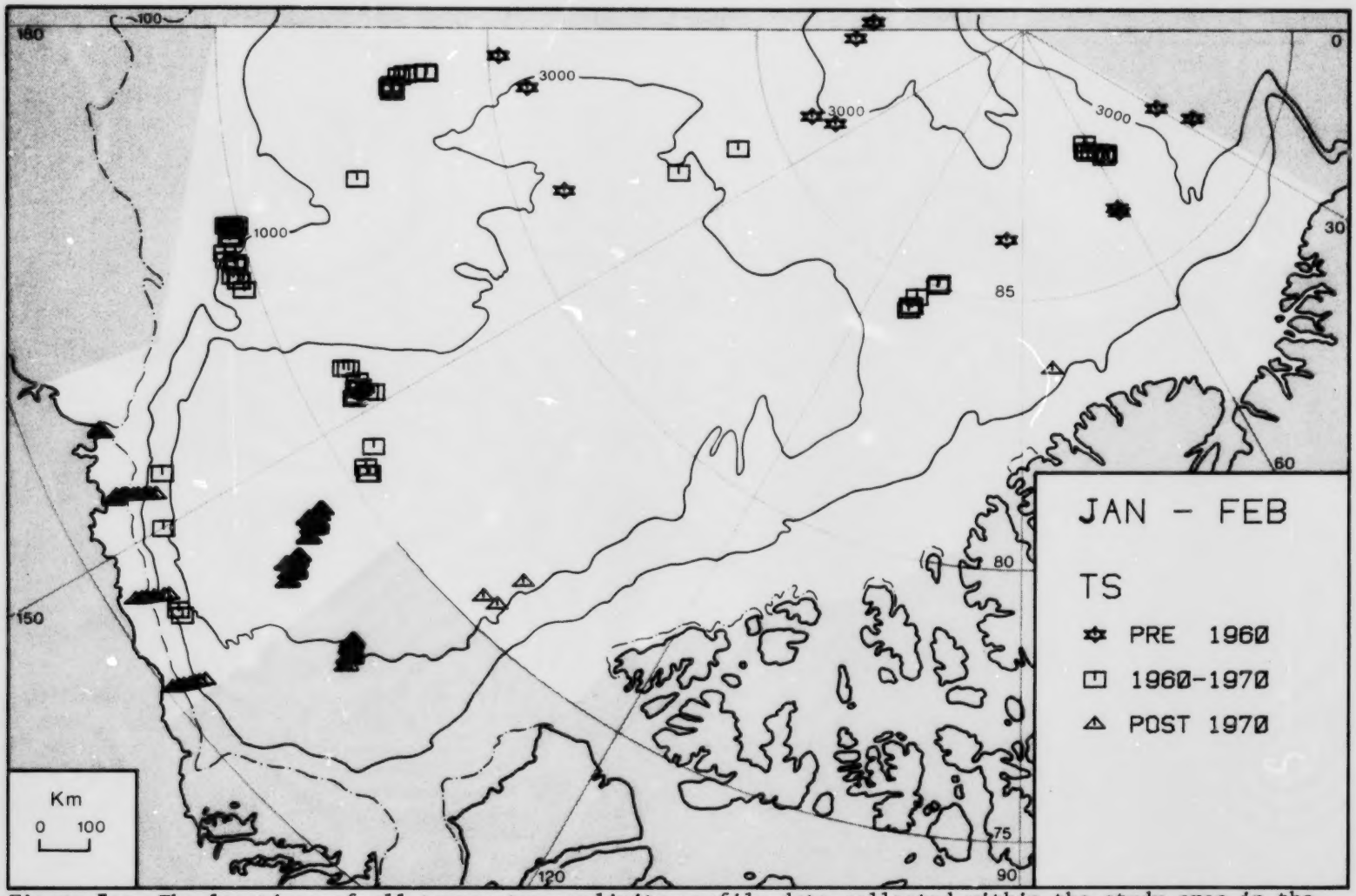

Figure 7a: The locations of all temperature-salinity profile data collected within the study area in the months January and February, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

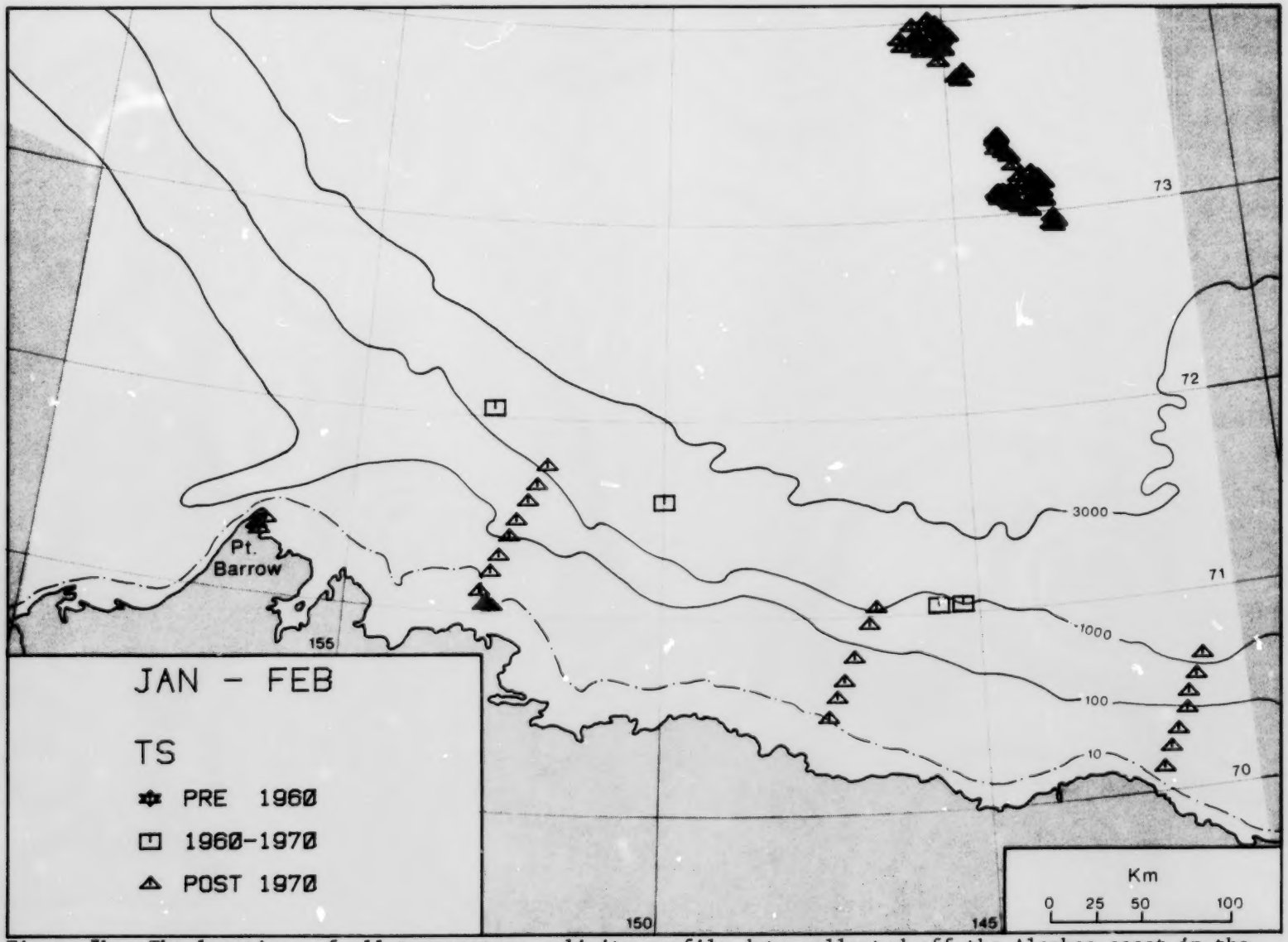

Figure 7b: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of January and February, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

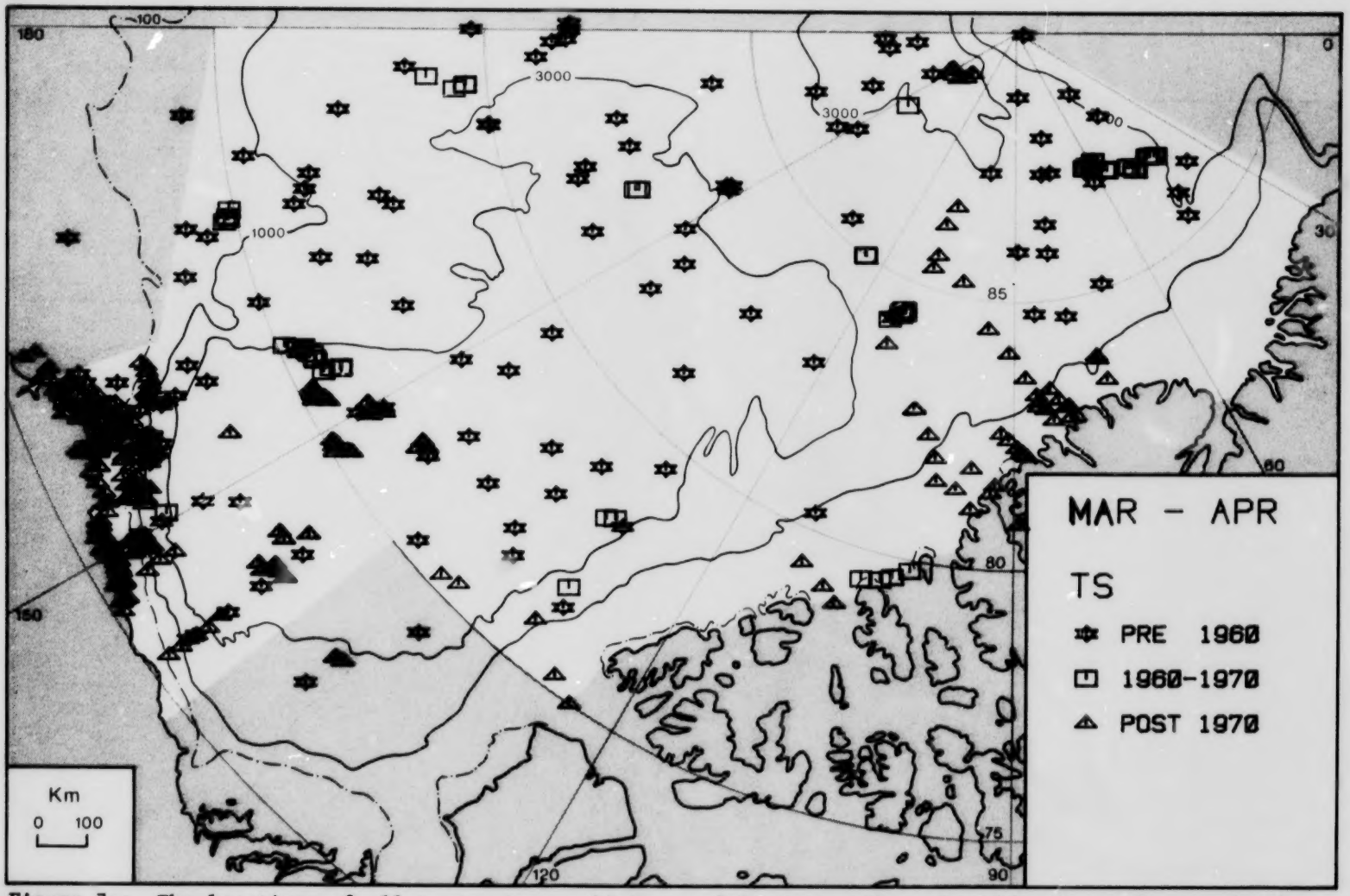

Figure 7c: The locations of all temperature-salinity profile data collected within the study area in the months March and April, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

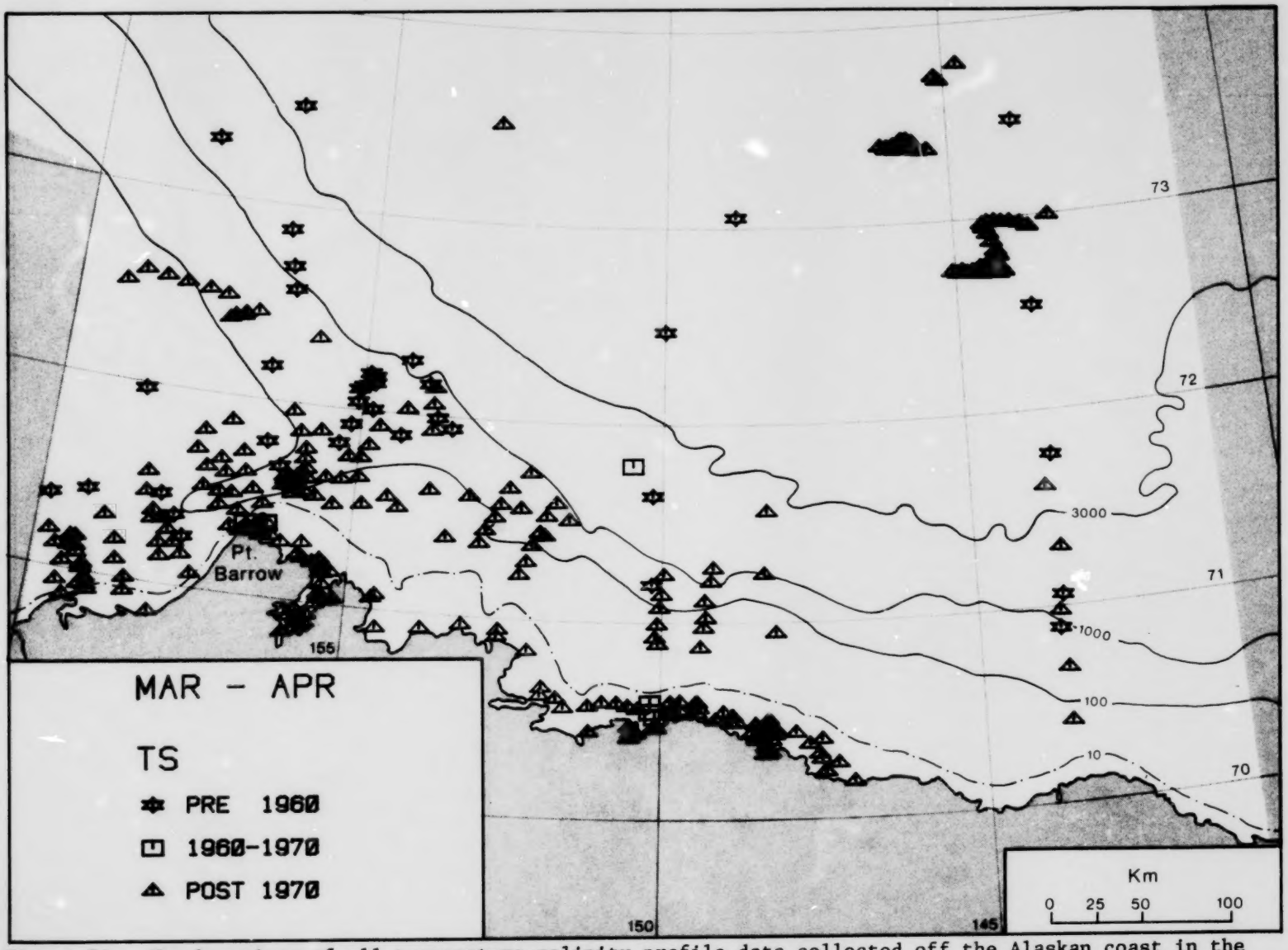

Figure 7d: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of March and April, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

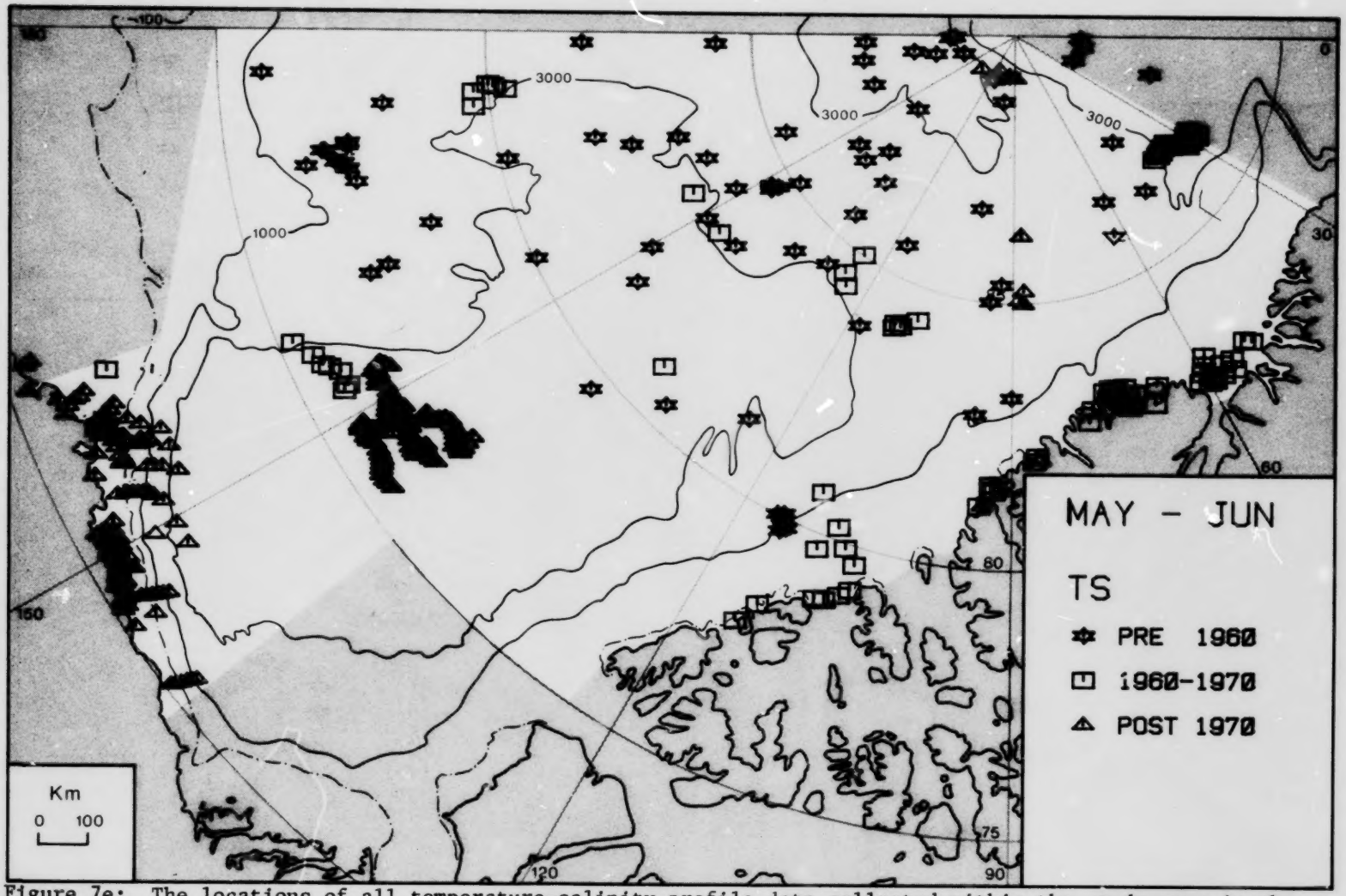

Figure 7e: The locations of all temperature-salinity profile data collected within the study area in the months May and June, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

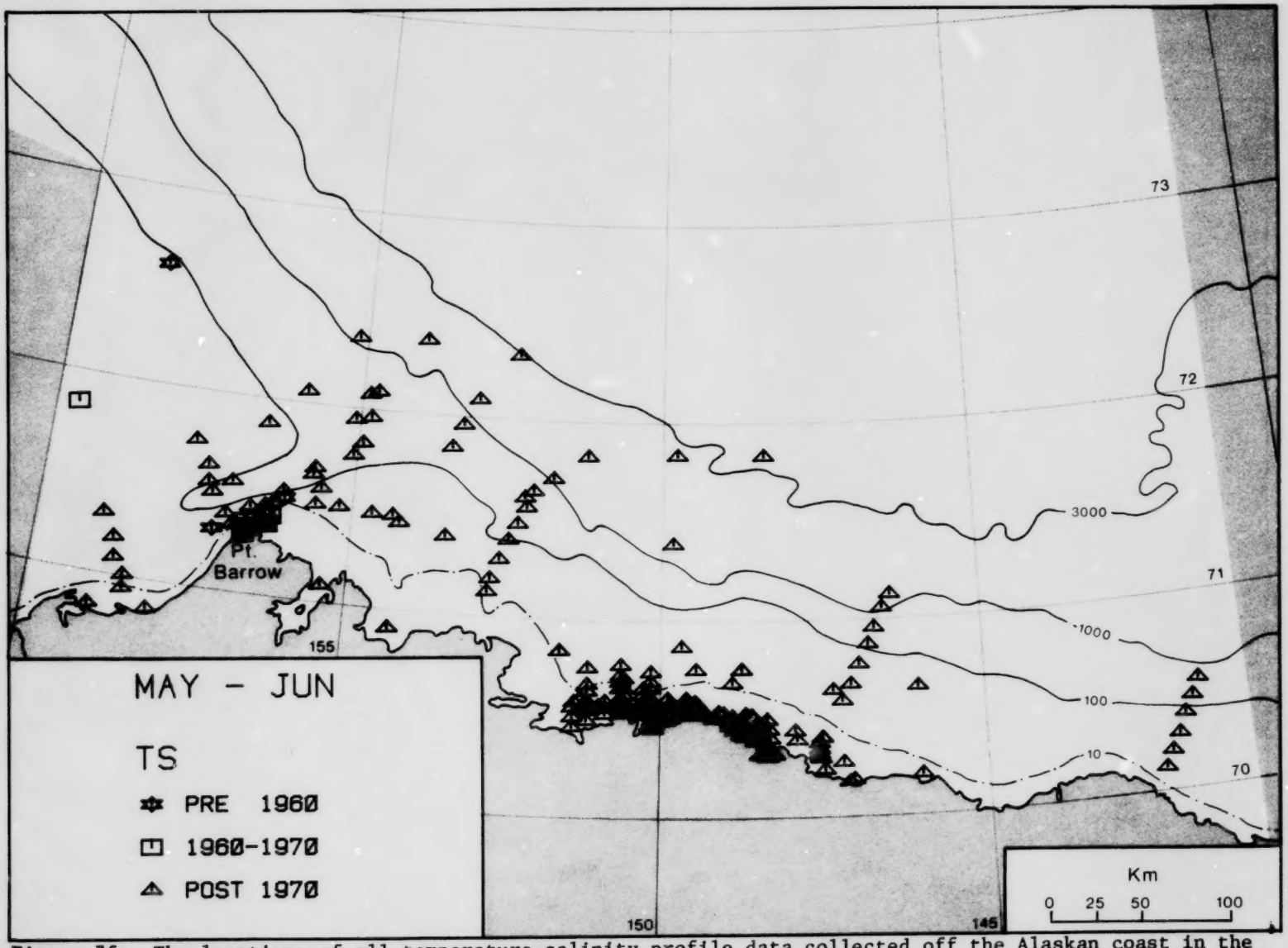

Figure 7f: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of May and June, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

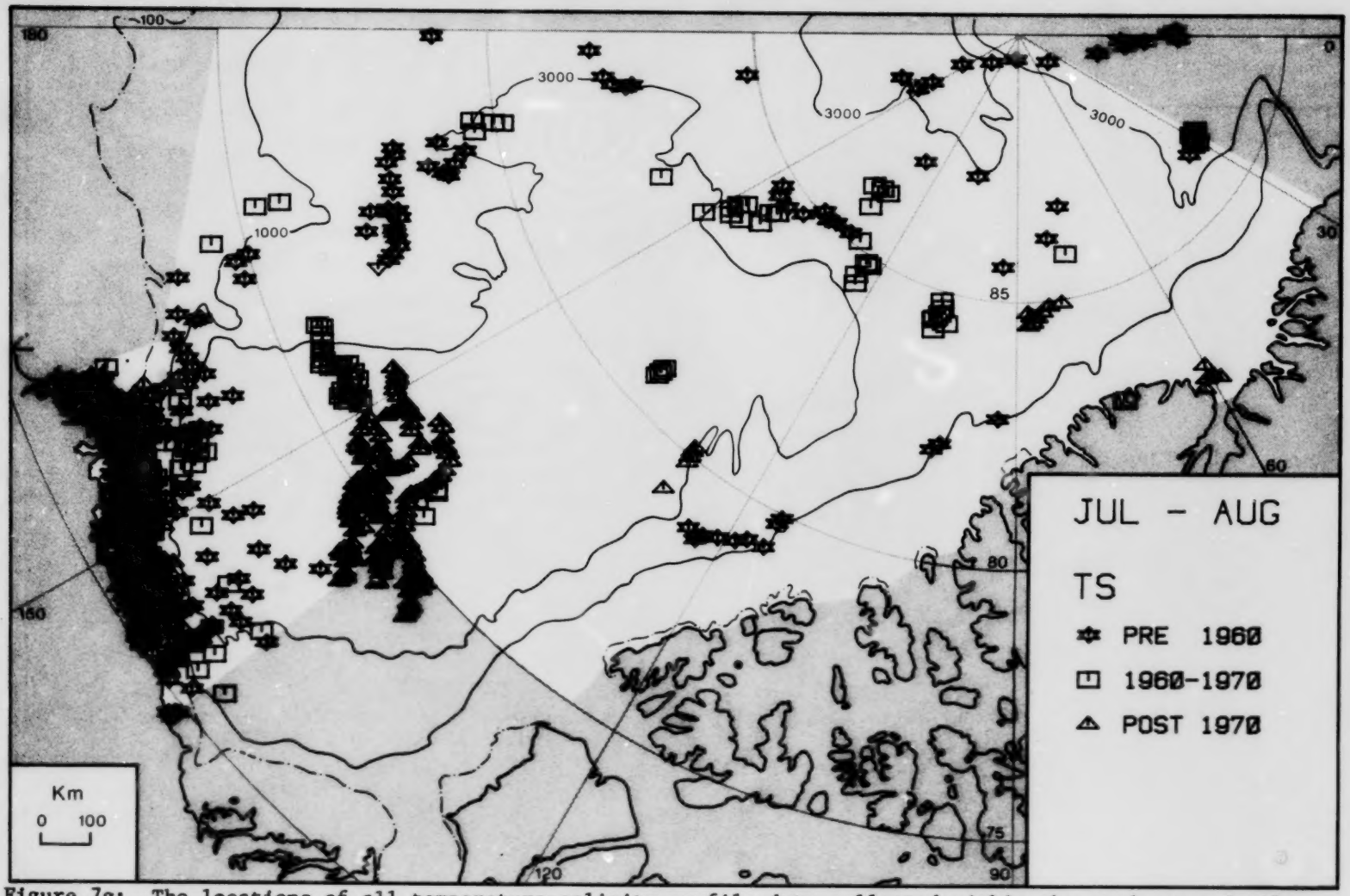

Figure 7g: The locations of all temperature-salinity profile data collected within the study area in the months of July and August, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

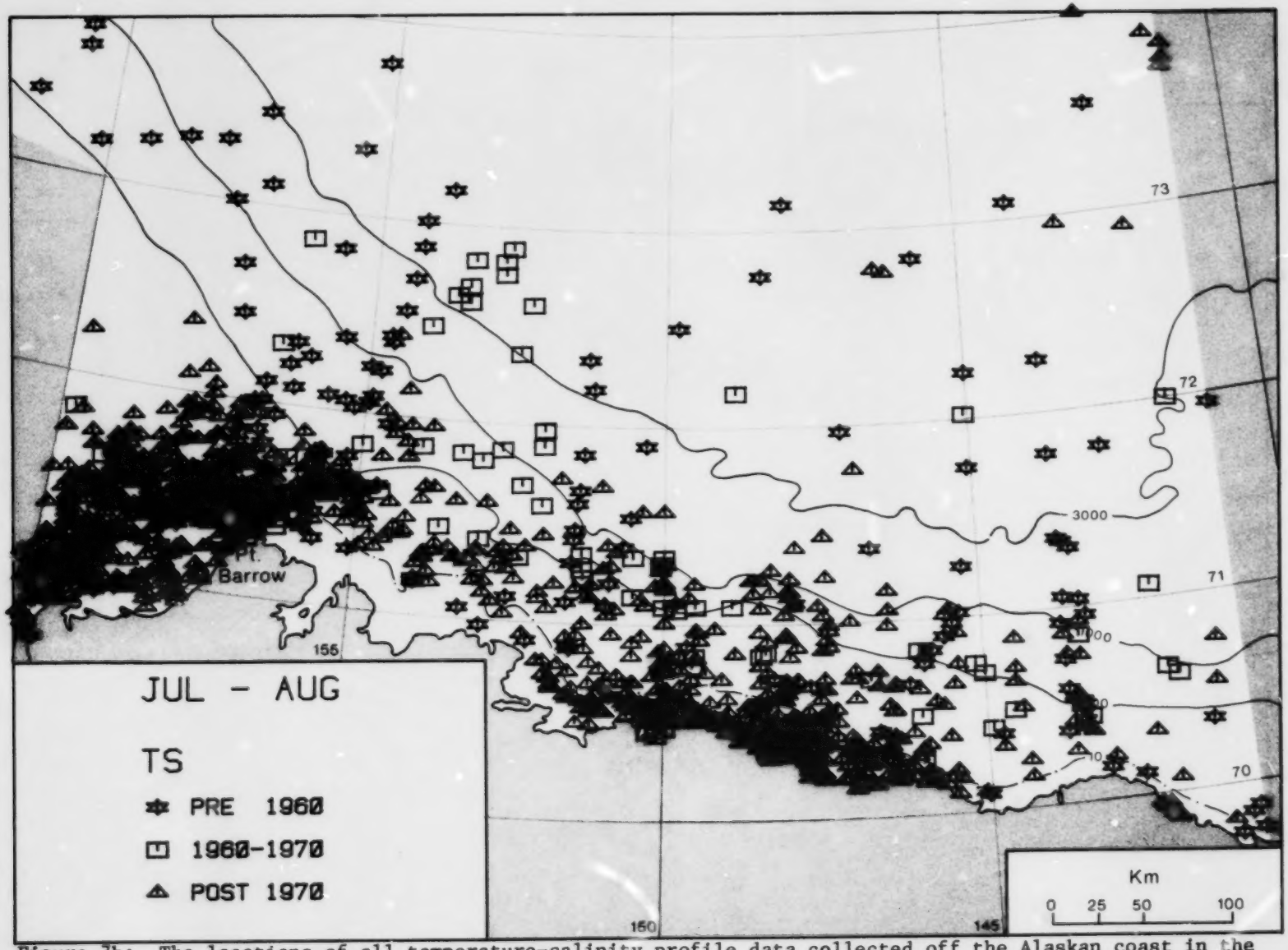

Figure 7h: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of July and August, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

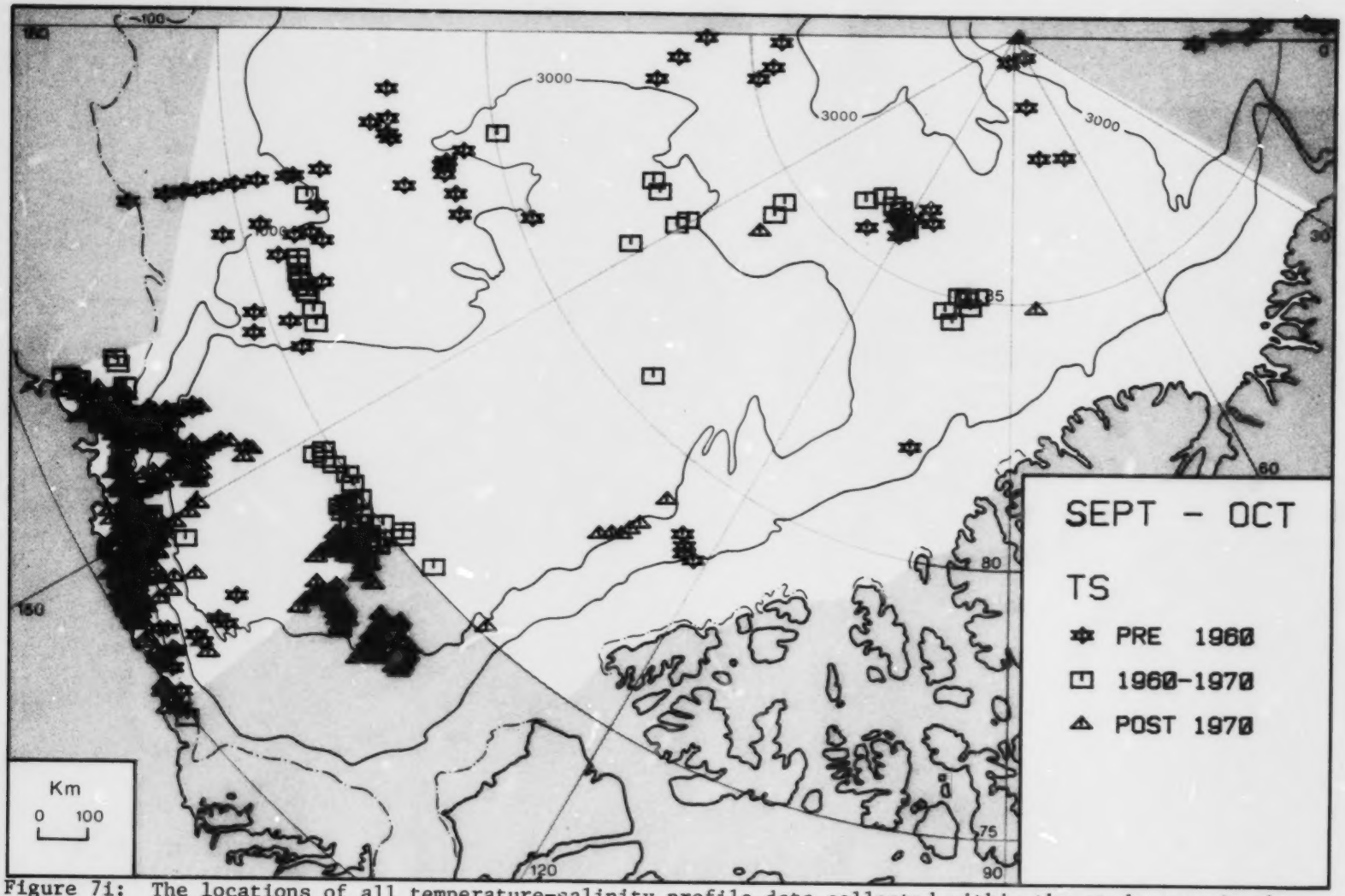

Figure 7i: The locations of all temperature-salinity profile data collected within the study area in the months September and October, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

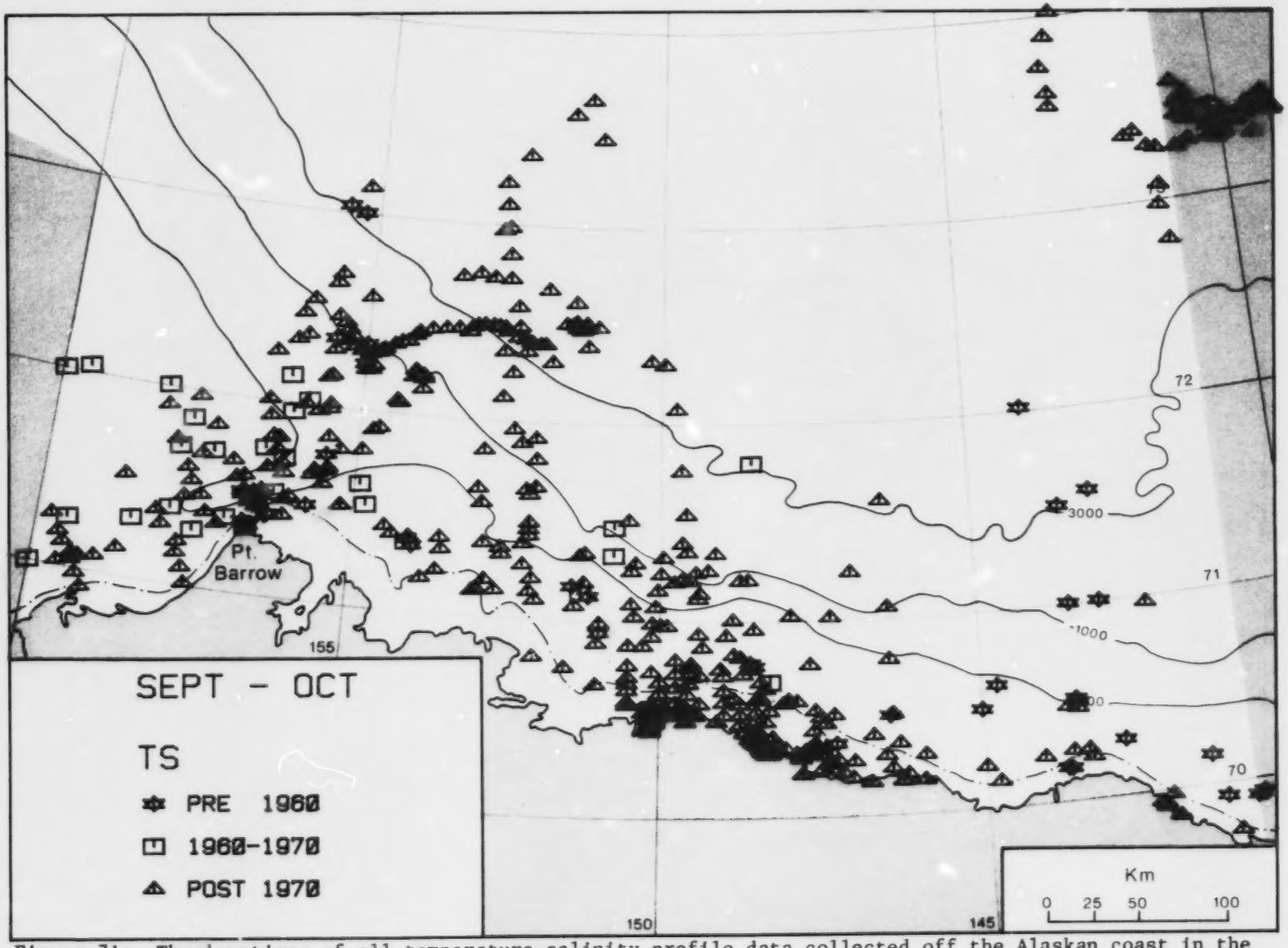

Figure 7j: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of September and October, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

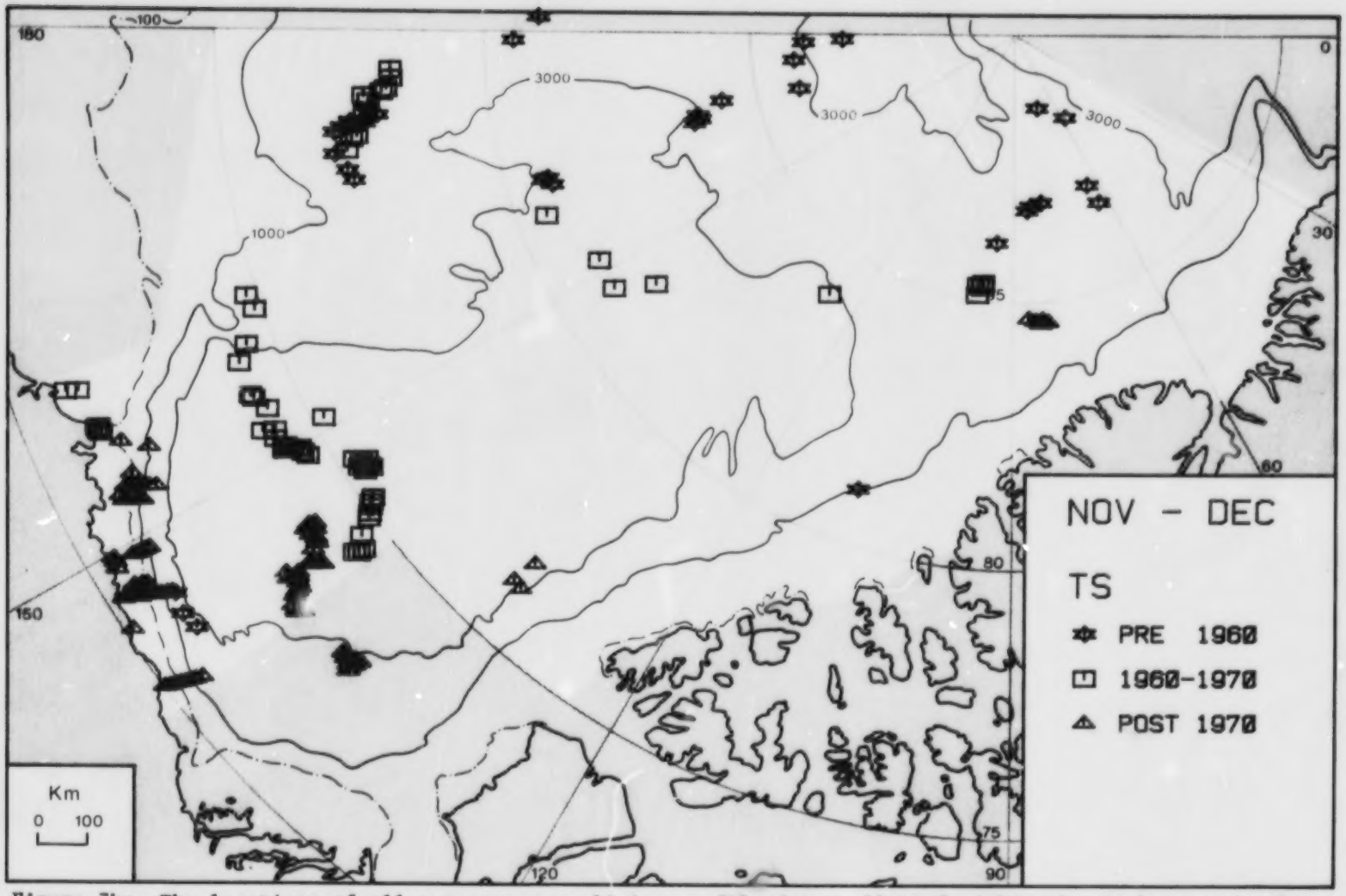

Figure 7k: The locations of all temperature-salinity profile data collected within the study area in the months November and December, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

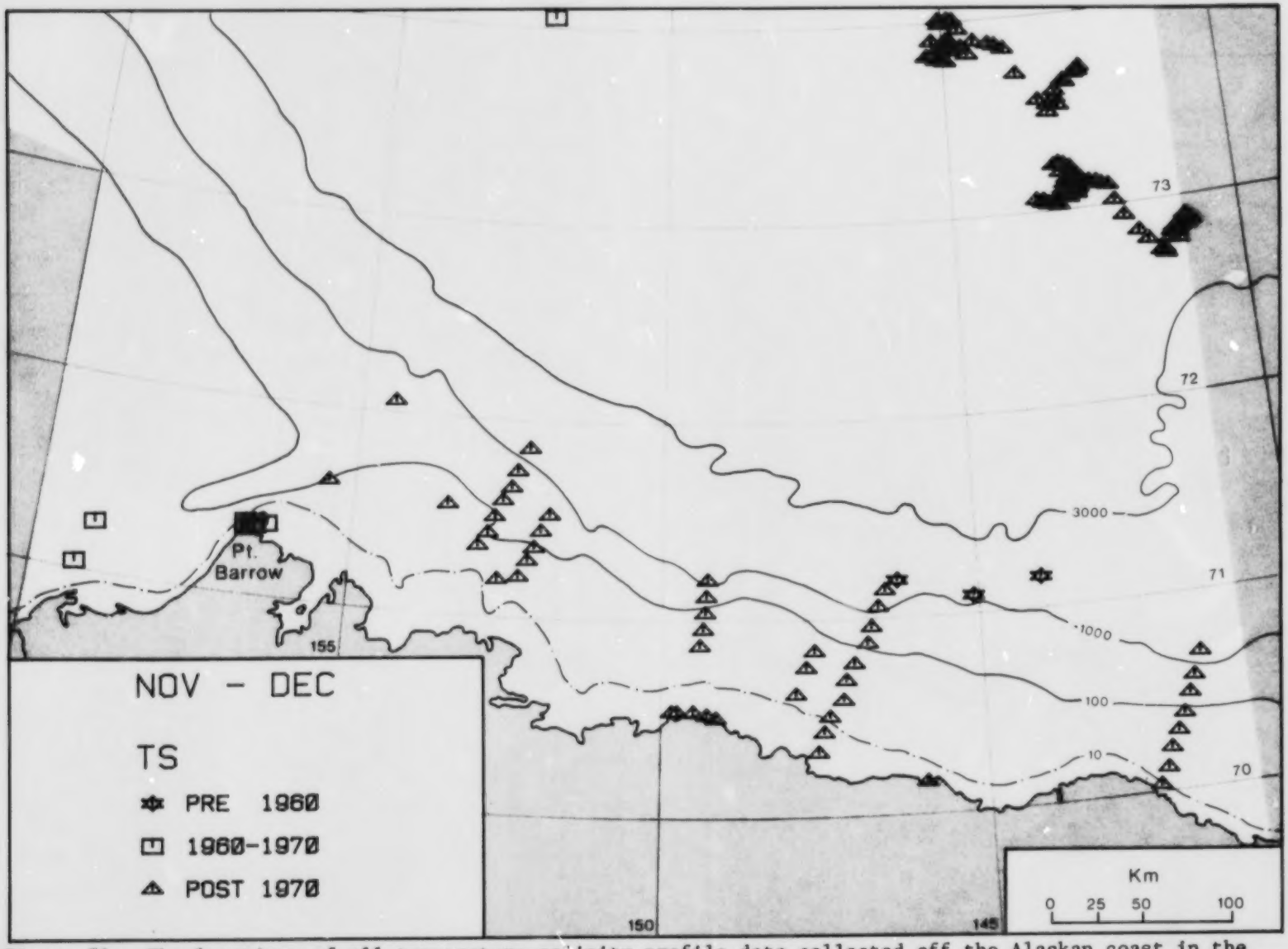

Figure 71: The locations of all temperature-salinity profile data collected off the Alaskan coast in the months of November and December, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available.

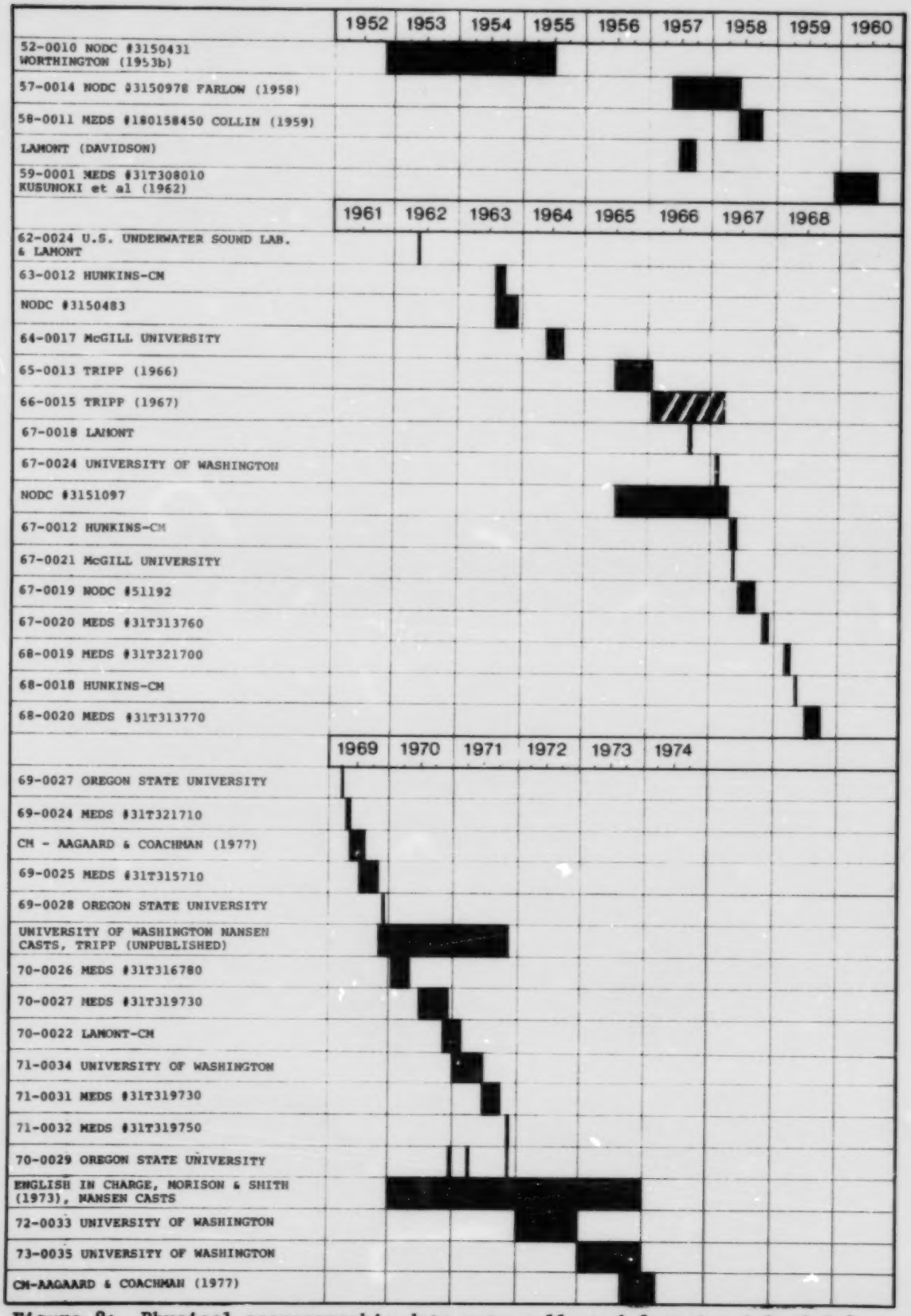

Figure 8: Physical oceanographic data sets collected from ice island T-3, 1952 through 1974.

Figure 9a: The locations of all current-meter and water-level data collected within the study area in the months of January and February, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

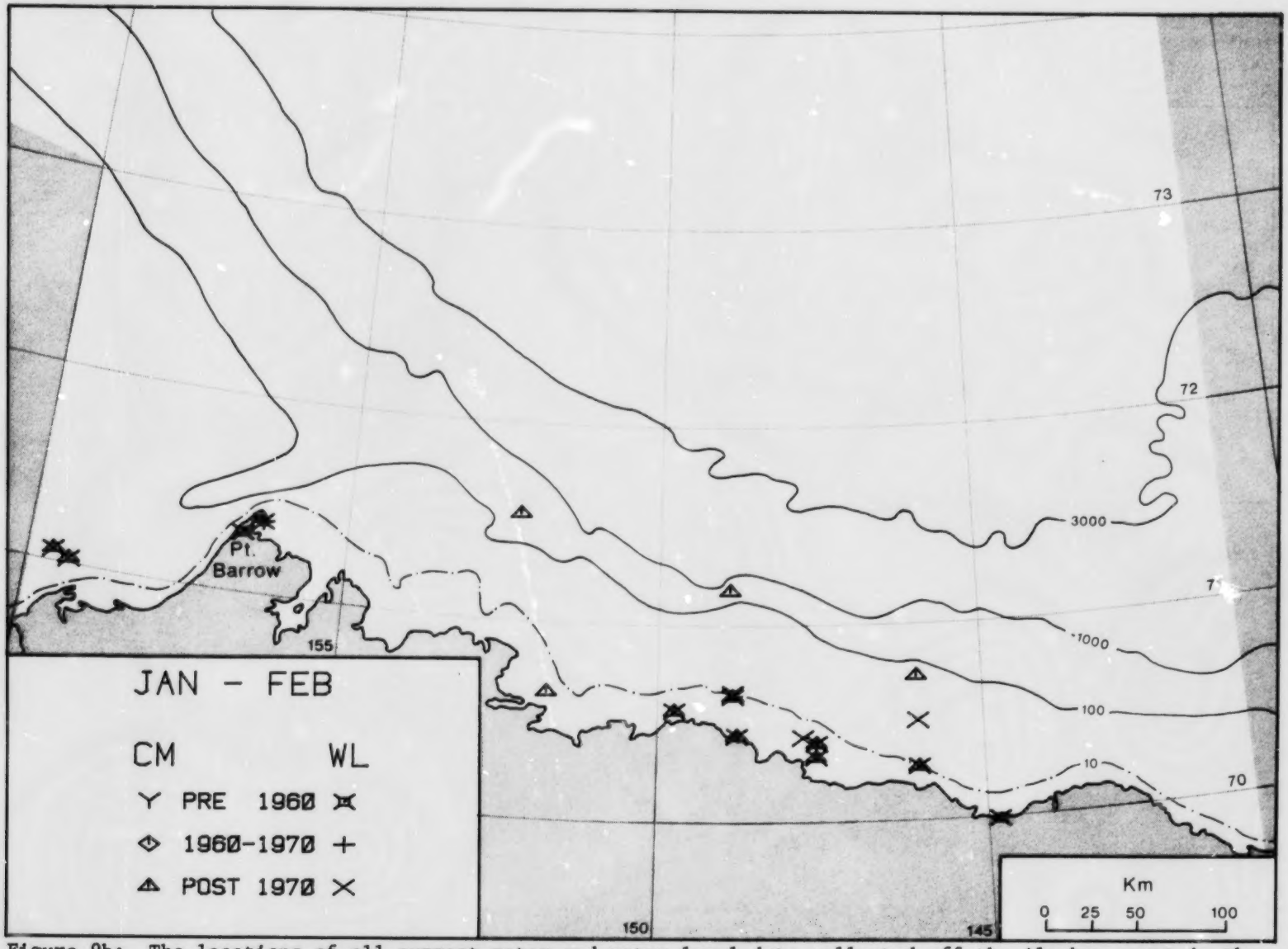

Figure 9b: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of January and February, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

Figure 9c: The locations of all current-meter and water-level data collected within the study area in the months of March and April, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

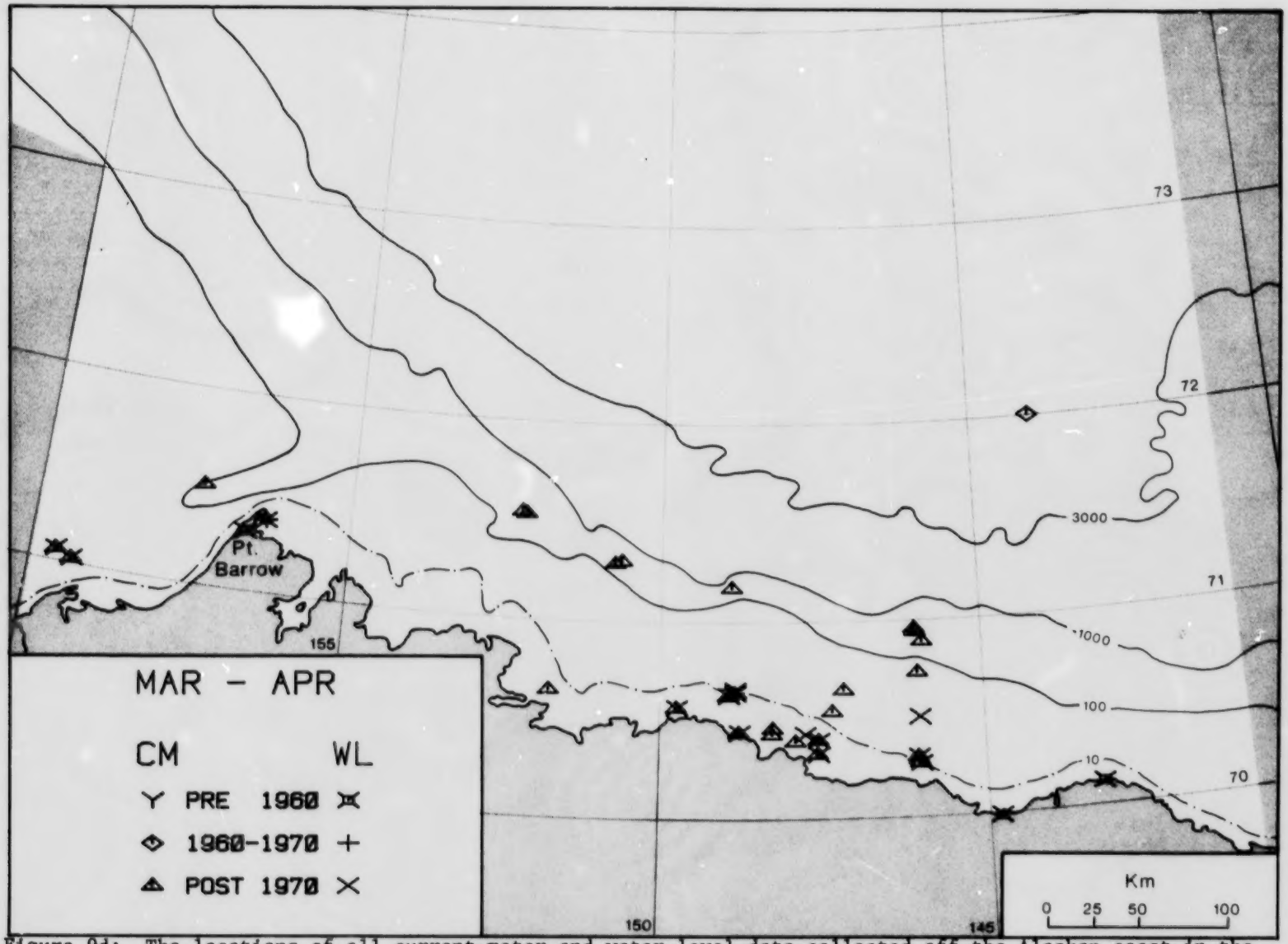

Figure 9d: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of March and April, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

Figure 9e: The locations of all current-meter and water-level data collected within the study area in the months of May and June, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

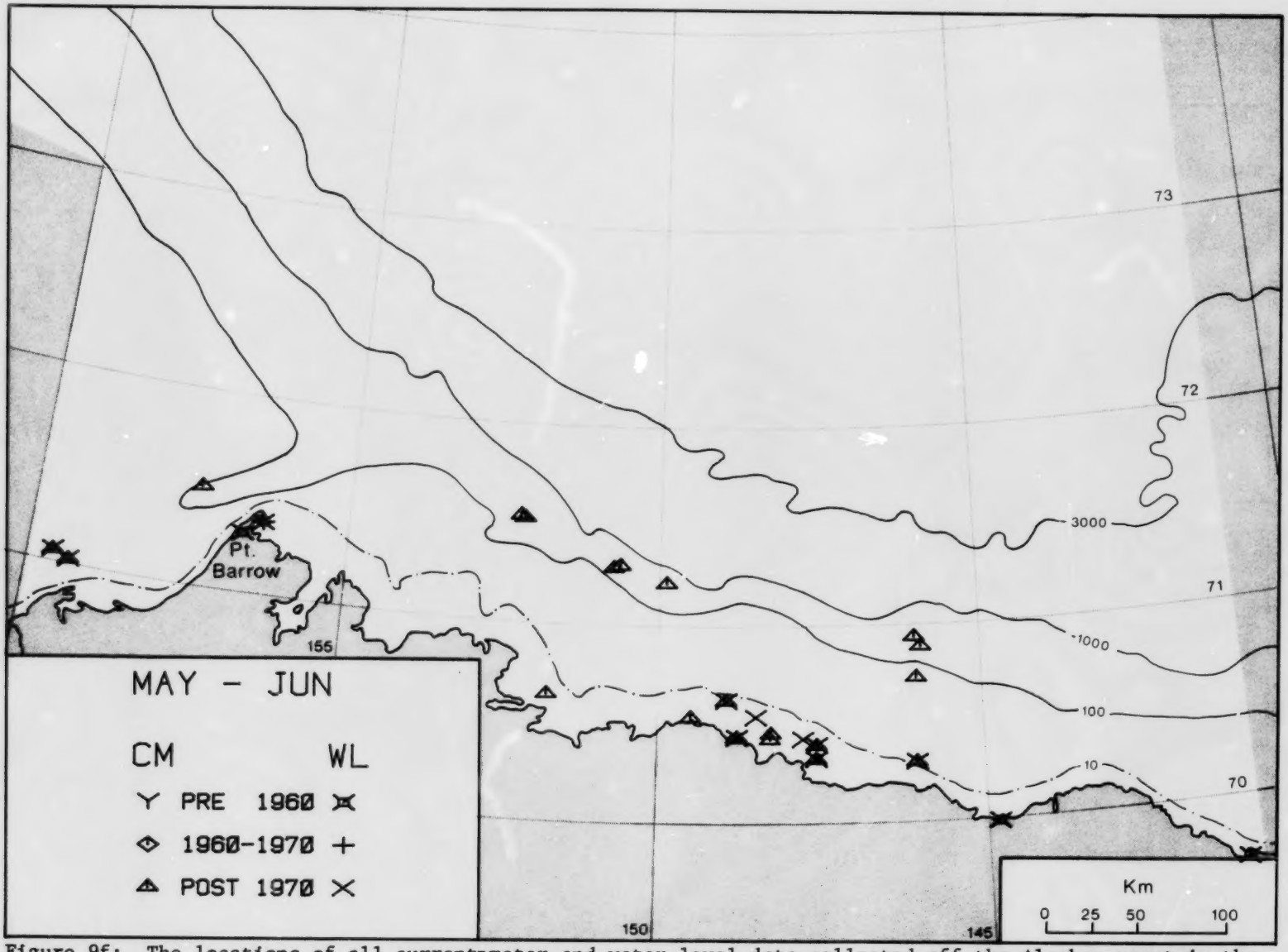

Figure 9f: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of May and June, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

Figure 9g: The locations of all current-meter and water-level data collected within the study area in the months of July and August, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

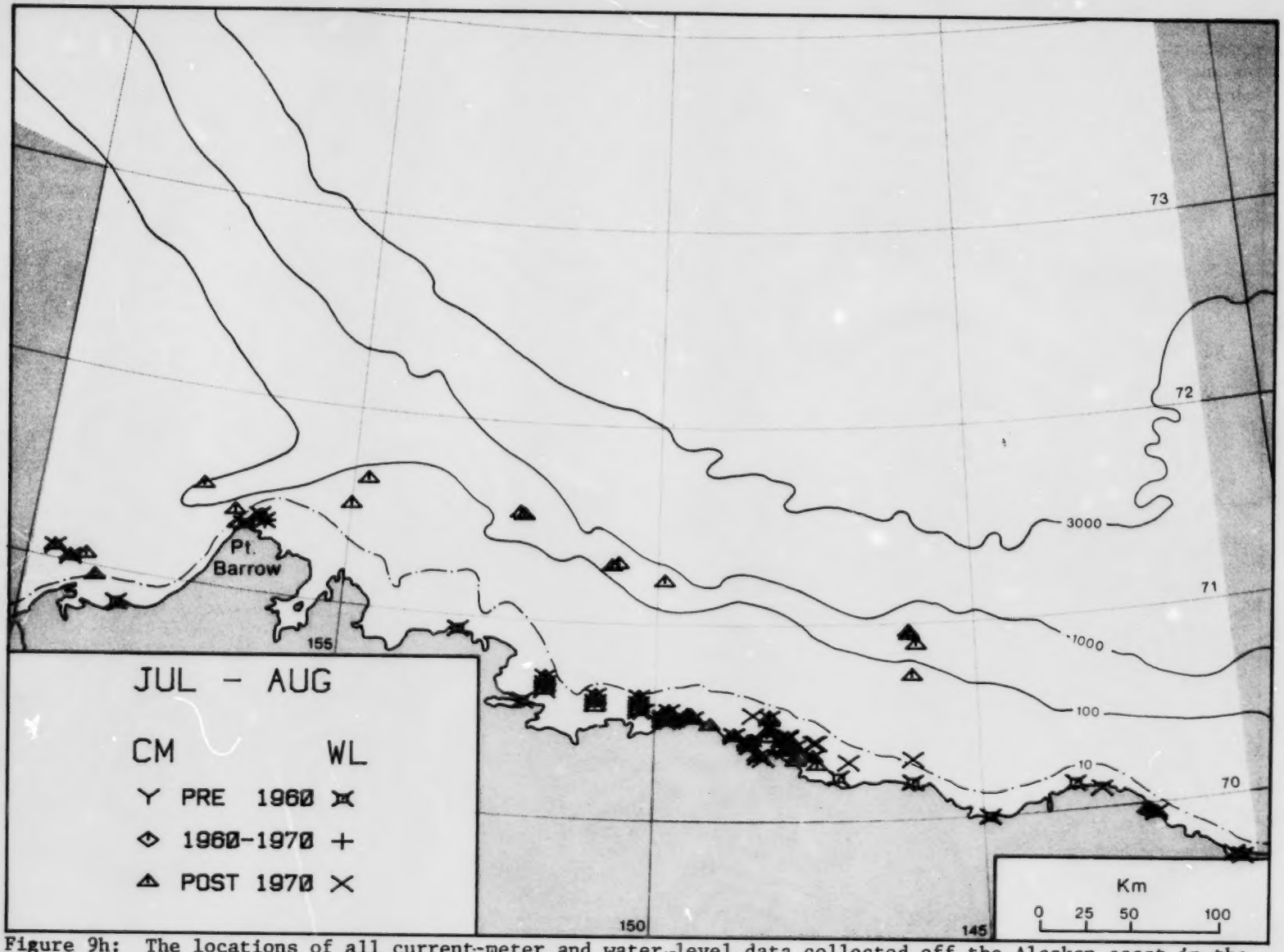

Figure 9h: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of July and August, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

Figure 9i: The locations of all current-meter and water-level data collected within the study area in the months of September and October, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

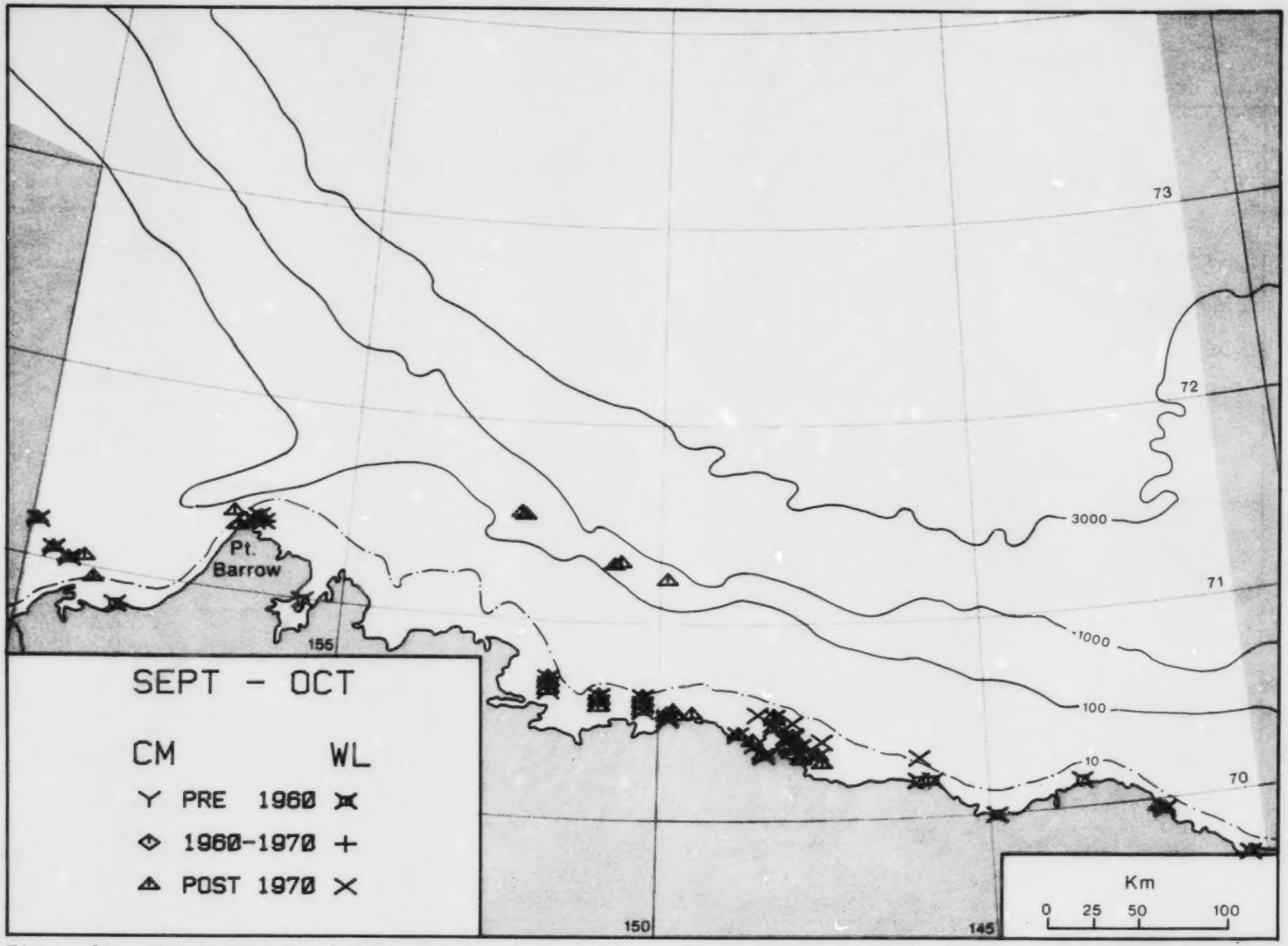

Figure 9j: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of September and October, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

Figure 9k: The locations of all current-meter and water-level data collected within the study area in the months of November and December, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

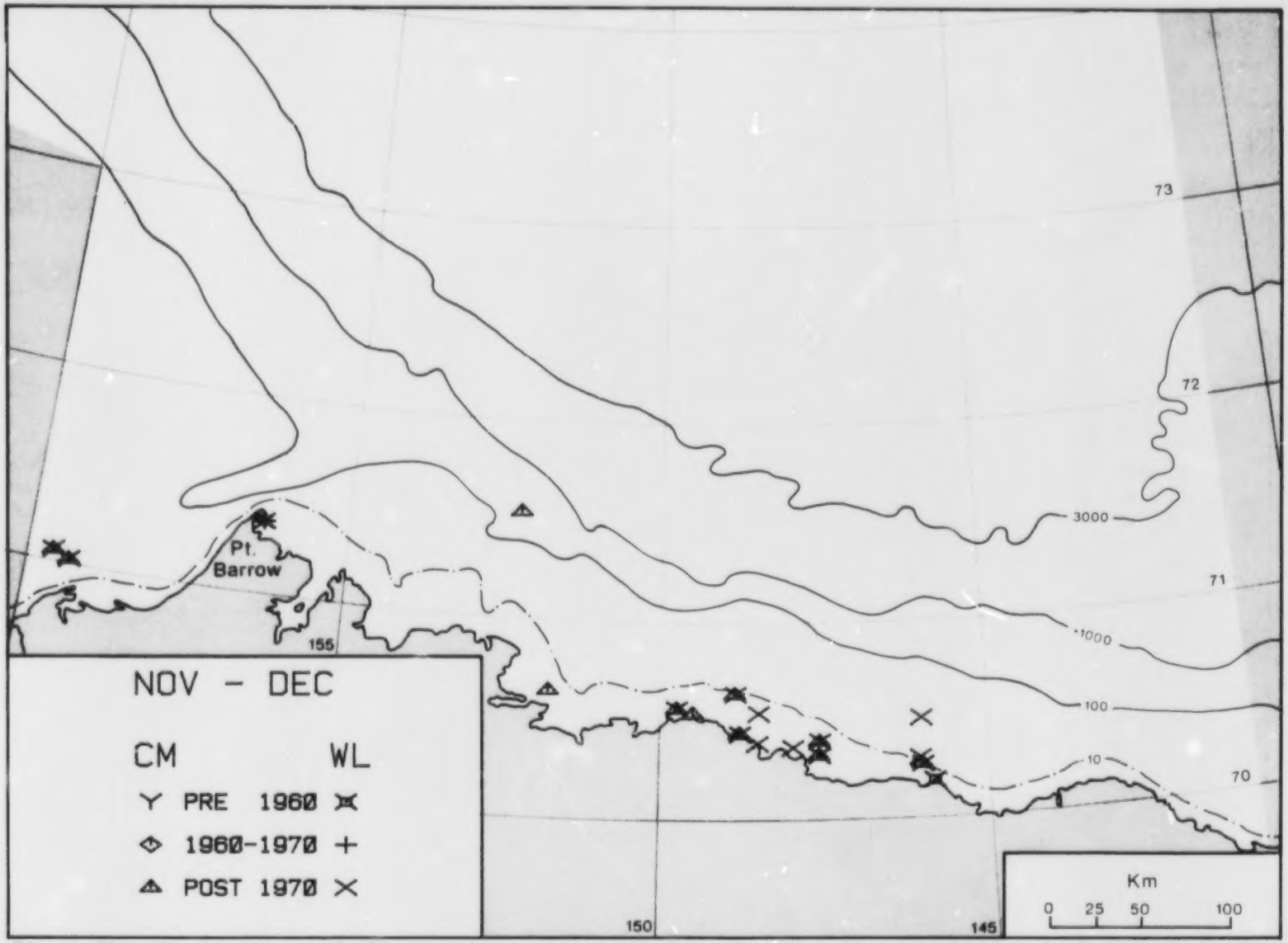

Figure 91: The locations of all current-meter and water-level data collected off the Alaskan coast in the months of November and December, excluding data obtained by Soviet investigators and U.S. oil companies for which locations are not available. Also not shown are the 1975 AIDJEX current meter locations, for which no documentation was available.

6.3 SYNOPTIC DATA SETS AND EXTENDED TIME SERIES

Synoptic Data Sets—Temperature/Salinity Data

In some years the existence of two or more data sets collected at the same time provides a combined data set with near-synoptic coverage over a relatively large area. Data sets were considered near-synoptic if their measurement periods overlapped significantly. The combined data sets may improve coverage within a given area, extend coverage to a larger area or allow comparison of simultaneous processes in different areas. The table below lists near-synoptic data sets by year and general area of coverage. Only temperature/salinity data are considered. Data sets followed by a question mark indicate uncertainty in the time period or location of the measurements. Synoptic groupings within the same year are separated by a solid line.

LIST OF NEAR-SYNOPTIC DATA SETS

1955

52-0010 Alpha Ridge
54-0014 Alpha Ridge
54-0015 Mendeleyev Ridge
55-0017 Alpha/Lomonosov Ridges

1956

54-0015 Mendeleyev Ridge
56-0012 Canada Basin

1957

57-0011 Mendeleyev Ridge
57-0012 Canada Basin
57-0013 Mendeleyev Ridge
57-0014 Q.E.I. Slope

1958

57-0011 Mendeleyev Ridge
57-0013 Mendeleyev Ridge
57-0014 Q.E.I. Slope
58-0010 Alaskan Slope

1959

57-0013 Lomonosov Ridge
59-0014 Alaskan Slope
59-0015 Chukchi Slope
59-0016 Chukchi Slope

1960

59-0015 Canada Basin
60-0015 Canada Basin

1961

59-0015 Chukchi Slope
60-0015 Chukchi Slope
61-0026 Chukchi Slope

1962

59-0015 Canada Basin
62-0022 Canada Basin
62-0023 Canada Basin
62-0024 Chukchi Slope

1963

63-0013 Canada Basin
63-0016 Makarov Basin,
Lomonosov Ridge

1964

63-0023 Canada Basin
64-0013 Lomonosov Ridge
64-0015 Chukchi Slope
64-0016 Canada Basin

1965

65-0013 Canada Basin
65-0014 Alaskan Slope

1966

66-0015 Canada Basin
66-0019 Canada Basin

1967

67-0010 N. Ellesmere Island
67-0013 N. Ellesmere Island

1968

68-0017 Alaskan Slope
68-0020 Alpha Ridge
68-0021 Chukchi Slope

1969

68-0021 Mendeleyev Ridge
69-0024 Alpha Ridge
69-0025 Alpha Ridge
69-0028 Alpha Ridge

1970

68-0021 Mendeleyev Ridge
69-0029 Chukchi Slope
70-0026 Alpha Ridge
70-0027 Alpha Ridge
70-0028 Mendeleyev Ridge
70-0029 Alpha Ridge
70-0035 Simpson Lagoon
70-0021 Simpson Lagoon

1971

68-0021 Mendeleyev Ridge
70-0028 Mendeleyev Ridge
71-0031 Alpha Ridge
71-0020 Alaskan Shelf
71-0021 Alaskan Shelf
71-0022 Alaskan Shelf
71-0023 Alaskan Shelf
71-0024 Alaskan Shelf
71-0033 Colville R. Delta
71-0035 Prudhoe Bay
71-0040 Prudhoe Bay, Simpson Lagoon
71-0042 Barrow

1972

68-0021 Alpha Ridge
70-0028 Mendeleyev Ridge, Canada Basin
72-0033 Alpha Ridge
72-0035 Canada Basin
71-0035 Prudhoe Bay
72-0027 Alaskan Shelf
72-0028 Alaskan Shelf
72-0029 Alaskan Shelf
72-0030 Alaskan Shelf
72-0031 Alaskan Shelf
72-0032 Alaskan Shelf
72-0034? Colville R. Delta
72-0040 Alaskan Shelf
72-0041 Alaskan Shelf

1973

73-0034 Chukchi Plain
73-0035 Alpha Ridge

1975

75-0052 Alaskan Shelf & Slope
75-0056 Alaskan Shelf & Slope

1976

73-0034 Canada Basin
75-0005 Canada Basin
76-0039 Alaskan Shelf
76-0045 Prudhoe Bay
76-0057 Alaskan Shelf

1977

77-0051 Alaskan Shelf
77-0052 Alaskan Shelf
77-0054 Alaskan Shelf
77-0069 Alaskan Shelf

1978

78-0033 Alaskan Shelf
78-0034 Alaskan Shelf
78-0035 Alaskan Shelf
78-0043 Alaskan Shelf
78-0046 Alaskan Shelf
78-0047 Alaskan Shelf
78-0058 Alaskan Shelf

1979

79-0041 Prudhoe Bay
79-0042 Prudhoe Bay
79-0061 Prudhoe Bay

1980

80-0037 Alaskan Shelf
80-0039 Alaskan Shelf
80-0048 Alaskan Slope
80-0049 Alaskan Shelf & Slope

1981

81-0033 Alaskan Shelf
81-0036 Alaskan Shelf
81-0042 Alaskan Shelf
81-0046 Alaskan Shelf
81-0047 Alaskan Shelf
81-0051 Alaskan Shelf
81-0052 Alaskan Shelf
81-0035 Alaskan Shelf
81-0048 Alaskan Shelf

1982

82-0012 Alaskan Shelf
82-0013 Alaskan Shelf
82-0015 Alaskan Shelf
82-0016 Alaskan Shelf
82-0017 Alaskan Shelf
82-0031 Alaskan Shelf
82-0033 Alaskan Shelf
82-0042 Alaskan Shelf
82-0043 Alaskan Shelf
82-0047 Alaskan Shelf

1983

83-0006 Alaskan Shelf
83-0007 Alaskan Shelf

Extended Time Series

Repeated measurements in the same area may allow long-term trends to be detected and levels of variability to be estimated. Repeated temperature and salinity measurements have been made in several areas. The table below lists the areas in which time series are available. Data sets followed by a question mark indicate uncertainty in the area or the type of measurements made.

LIST OF EXTENDED TIME SERIES BY AREA

Canada Basin		Lomonosov Ridge	Alpha Ridge	Harrison Bay*	Prudhoe Bay
41-0001	70-0001	54-0013	49-0005	35-0001	71-0022
49-0005	70-0028	54-0014	50-0008	37-0001	71-0035
50-0001	70-0029	57-0013	52-0010	50-0001	71-0040
50-0007	71-0003	58-0013	55-0017	55-0019	71-0044
50-0008	72-0035	63-0016	56-0012	57-0002	72-0032
51-0001	73-0034	64-0013	57-0011	58-0001	73-0045
51-0011	75-0005	64-0014	68-0020	59-0002	75-0059
52-0009	81-0041?	75-0067	68-0021	60-0001	75-0072
56-0001	83-0005	79-0050	69-0024	68-0017	76-0045
56-0012			69-0025	69-0001	76-0046
57-0012			70-0026	69-0022	76-0058
58-0001			70-0027	70-0021	77-0051
58-0010			70-0029	71-0022	77-0052
58-0011			71-0031	71-0023	78-0033
59-0001			71-0032	71-0026	78-0035
59-0002			71-0034	71-0043	79-0041
59-0014			72-0033	72-0027	79-0042
59-0015			73-0035	73-0038	79-0043
60-0001			78-0044	75-0057	79-0061
60-0002			83-0004	76-0040	80-0039
60-0013				77-0044	80-0041
60-0015				80-0037	81-0033
61-0026				80-0047	81-0036
62-0022				81-0042	81-0047
62-0023				81-0045	82-0026?
63-0012				82-0026?	82-0030
63-0013					82-0031
64-0016					82-0043
64-0017					82-0048
65-0013					83-0013
65-0014					83-0020
65-0016					83-0022
65-0022					
66-0015					
66-0018					
67-0019					
67-0020					
68-0019					
68-0021					
69-0028					

*including shelf directly off Bay

6.4 CONCLUSIONS

This catalogue of physical oceanographic data for the Canada Basin allows oceanographers and others to determine the coverage and quality of data pertaining to their areas of interest. The inventory at present contains 340 data sets which have been collected largely by U.S., Soviet or Canadian agencies, or by contractors working for oil companies. Unfortunately, little is known of much of the Soviet data or of data collected by U.S. and Soviet submarines (see Section 12).

Most of the data has been collected during the June-through-October period, particularly over shelf regions when conditions are most favorable. Stations are most concentrated along the Alaskan coast, with secondary concentrations over the Lomonosov and Alpha ridges.

An official request has been sent to the Soviet authorities, through MEDS, asking for information on data they have collected in this area. These data sets, along with an unknown quantity of data collected by submarines, represent a large deficiency in our compilation of existing data. Even once this information is obtained, it is anticipated that more difficulty will be encountered in obtaining the actual data.

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8. DATA INVENTORY TABLE

Table 1 presents a summary listing of the data sets included in this inventory. The table lists all the data contained in the inventory sequentially by data set number. Water property, moored current meter, surface drift and water level data are fully catalogued. BT data, because of their limited usefulness in Arctic waters without accompanying salinity data, have not been catalogued in detail. However their existence has been noted in Table 1, and their general distribution may be deduced from the pattern of stations for a particular cruise, as they were usually collected at and along the track between stations. Over-the-side current measurements of short duration made with fixed-depth or profiling current meters have not been fully inventoried. Attempts were made to include all such data covering a tidal cycle or more.

Each column of the table contains the following information (symbols and abbreviations used in each column are explained as well):

Column 1 - Data Set I.D.

- contains the data set identifier number, which is of the form yy-nnnn, where yy are the last two digits of the year in which the data set was collected, and nnnn is the sequential number of the data set for that particular year. (The series of data set numbers applies to the whole set of inventories; gaps may appear in the sequence in any one inventory where data sets exist only in other areas or disciplines. A data set which appears in two or more areas or disciplines will have the same number in every case.) Data sets may be sub-divided by the addition of a letter at the end of the number. Sub-divisions apply only within this report and are used to separate specific types of physical oceanographic data within a single cruise or study.

- spring U.S.S.R. aircraft surveys (Sever series, see Section 12) have been assigned I.D.'s "YR-?", if <u>no</u> information was available. It is believed that these surveys were annual, however the survey may not have extended into this area.

Column 2 - Ship or collecting agency

- contains the name of the ship (underlined), platform and/or agency.

Column 3 - Dates of measurements

- gives the dates spanning the period during which measurements were taken in the area covered by the inventory. The year is given by the first two digits of the data set number in column 1, unless the measurement period spans the end of a year, in which case it is given explicitly. Question marks mean the dates could not be confirmed, generally due to poor/lack of documentation.

Column 4 - Quantity measured

- lists the physical parameters measured in the data set. A quantity followed by a ? means that reference to such a measurement was made but no supporting details were available. Measurements identified as

"Current" are Eulerian, fixed current measurements; "Current drift" refers to Lagrangian measurements. "Current profiles" are spot measurements at certain depths.

Column 5 - Instruments or methods used

- lists the instruments and methods used to make the measurements. The entries appear opposite the names (in column 3) of the quantities they measure. A question mark after the entry denotes an assumption, i.e. that the method used was not explicitly stated and an assumption was made from standard practice at the time. A question mark alone means that the instrument used is unknown. In such cases, a question mark will also appear in the next column regarding the accuracy/precision.

Column 6 - Estimate of data precision and accuracy

- lists the estimates of the precision (repeatability) and accuracy for each instrument opposite the entry for that instrument in column 5. For instruments of a digital nature, the precision specified is based on the resolution of the instrument. Where possible, estimates made by the original investigators are used. They are entered as two numbers of the form $\pm n_1$, $\pm n_2$ where n_1 is the precision and n_2 the accuracy. Where investigator's estimates were not available, the following special symbols and entries have been used:

$[\pm n_1, n_2]$: standard oceanographic methods were used, which would normally result in these values. The techniques and precision/accuracy used in this context are:

BT	[0.2C°,0.2C°]
Reversing thermometer	[0.02C°,0.03C°]
Salinity - Hydrometer	[0.2°/oo,0.2°/oo]
Salinity - Refractometer	[0.5°/oo,0.5°/oo]
Salinity - Titration	[0.02°/oo,0.04°/oo]
Salinity - Bench salinometer	[0.01°/oo,0.02°/oo]

$\pm n_1$ @: manufacturer's specifications for that instrument.

$\pm n_1$?: an estimate has been given which is questionable for reasons detailed in Appendix 1.

The column is blank where no information was available and no reasonable assumption could be made.

Column 7 - Data rating number

- carries the data rating number assigned as explained in Section 5.

Column 8 - Area

- lists the sub-areas in which the majority of the measurements in the data set were taken. (The sub-areas are defined in Figure 1.)

Column 9 - Concurrent measurements

- lists known measurements in other disciplines taken as part of the data set. Other measurements may have been taken which were not discovered while cataloguing the physical oceanographic data.

Column 10 - Source or reference

- lists a primary source or reference for the data sets. Data sets held in the data banks at the Marine Environmental Data Centre, Ottawa or at the National Oceanographic Data Center, Washington D.C. are identified, respectively by the entries MEDS# and NODC# followed by the data bank's identity number. A MEDS number alone does not necessarily mean that the data are not stored at NODC. If MEDS does not have the data then a NODC number is given if stored there. Appendix 2 lists addresses and contacts for these sources. Water level data having a National Ocean Survey number may be obtained from the National Ocean Service/NOAA, Rockville, Maryland.

TABLE 1: SUMMARY LISTING OF DATA SETS

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
1883-1	INT'L POLAR EXPEDITION	Feb.26-June 10?	Water level	Pulley & Scale	±.3,?cm	3	Point Barrow		Ray (1885), Harris (1911) National Ocean Service #9494881
05-0001	PEARY POLAR EXPEDITION	Nov.4-Dec.2	Water level	Tide staff	[±1-3, ?cm]	3	N. Ellesmere Island		Harris (1911)
06-0001	ANGLO-AMERICAN EXPEDITION	Oct.21-Dec.12	Water level	Tide staff	[±1-3, ?cm]	3	Flaxman Island (Alaskan coast)		Harris (1911), National Ocean Service #9498381
08-0004	PEARY POLAR EXPEDITION	Nov.12,1908-June, 1909	Water level	Tide staff	[±1-3, ?cm]	3	N. Greenland, Ellesmere Island		Harris (1911)
13-0001	KARLUK, CANADIAN ARCTIC EXPEDITION	-Samples sank with ship-					Flaxman Island to Wrangel Island	Sediment, benthos, soundings	McKinlay (1976)
14-0002	CANADIAN ARCTIC EXPEDITION	Jan. 16-May 12,1914; June 2-3,1916	Water level	Recording gauge tide scale	±.3,?cm ±.75, ?cm	3	Collinson, Martin, Demarcation points, Cape Isachsen		Dawson (1920)
35-0001	ST. ROCHE, LARSEN OF THE R.C.M.P.	July 17-31	Temperature (Surface) Salinity (Surface)	Reversing thermometer Hydrometer	[±.02,.03C°] [±.2,.2°/oo]	3	Alaskan Shelf	Biological: cumacea, hydroids, decapoda, polycheata	Tully (1952)
37-0001	ST. ROCHE LARSEN OF THE R.C.M.P.	Sept. 5-6	Temperature (Surface) Salinity (Surface)	Reversing thermometer Hydrometer	[±.02,.03C°] [±.2,.2°/oo]	3	Alaskan Shelf	Biological: cumacea, hydroids, decapoda, polycheata	Tully (1952)
37-0005	NORTHLAND?	Aug.15-23	Temperature Salinity	?	?	2	Northeast Chukchi Sea	O_2, SiO_3, PO_4	Hufford (1973) MEDS# 31N003570 NODC# 3150357
37-0006	ICE ISLAND NP-1	May 21,1937-Feb.19,1938	Temperature Salinity Current	?	?	2	Amundsen Basin		Laktionov (1937) Papanin et al. (1937) Shirshov (1938, 1944) Timofeyev (1960)
37-0007?	USSR AIRCRAFT LANDINGS	Spring	?	?	?	2	Makarov Basin		Fletcher (1968)
38-0003	NORTHLAND	Aug.3-5	Temperature Salinity	?	?	2	Northeast Chukchi Sea	O_2, NO_2, PO_4	MEDS# 31N003570 NODC# 3150357

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
41-0001	USSR N-169 AIRCRAFT LANDINGS	April 3-28	Temperature Salinity	?	?	2	Mendeleyev Ridge and Abyssal Plain	Gravity, geophysics, plankton, O_2	Arkticheskii Nauchno-issledovatel'skii institut (1946), Libin and Chernigovskii (1946)
45-0001	U.S. COAST AND GEODETIC SURVEY	Aug.1-Sept.30	Water level	?	?	2	Point Barrow		National Ocean Service #9495011, 9495296, 9495911
47-0002	U.S. COAST AND GEODETIC SURVEY	July 22-Sept.11	Water level	?	?	2	Northeastern Chukchi Sea, Peard Bay		National Ocean Service #9494401
48-0006	NORTHWIND	July 24-Aug. 1	Temperature Salinity	?	?	2	Off Point Barrow		Hufford (1973) NODC# 3150219
48-0007	USSR AIRCRAFT LANDINGS	April 16-May 30	Temperature Salinity	?	?	2	Makarov Basin, Mendeleyev Ridge, North Pole (Amundsen Basin)	SiO_3	Somov (1955), Musin (1960) Timofeyev (1960)
48-0008	U.S. COAST AND GEODETIC SURVEY	July 16-Sept. 4	Water level	?	?	2	Barter Island		National Ocean Service #9499176
49-0004	U.S. COAST AND GEODETIC SURVEY	July 17-Aug.17?	Water level	?	?	2	Tigvariak Island		U.S. Coast and Geodetic Survey (1952), National Ocean Service #9498008
49-0005	USSR AIRCRAFT LANDINGS	April 27-May 13	Temperature Salinity	?	?	2	Northern Canada Basin, Mendeleyev Ridge, Alpha Ridge, Markarov Basin	O_2, Br, $CaCO_3$, HCO_3, NO_3, pH, SiO_3, Ca, K, Mg, Na, Tr	Timofeyev (1960) Musin (1960)
49-0006	U.S. NAVY, ICE CAMP	Mar. 26-June 7	Temperature Salinity	Reversing thermometer, BT ?	[±.02,.03C°] [±.2,.2C°]	2	Near Point Barrow	Sediment	U.S. Navy Electronics Laboratory (1950)
50-0001	USS BURTON ISLAND	Aug. 5-30	Temperature Salinity Current profile	Reversing thermometer, BT Titration Ekman meter	[±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo]	3	Alaskan Shelf and Slope, Canada Basin	Plankton hauls (species and abundance; bacterial activity) diss.oxygen, PO_4, bottom samples, secchi disc	USNHO (1954) MEDS# 31BI01530 NODC# 3150153

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
50-0007	ICE STATION NP-2	Apr.23,1950-Apr.2,1951	Salinity Temperature Current profiles	Titration Reversing thermometer Ekman-like meter	[±.02,.04°/oo] [±.02,.03C°] ±1 cm/s	3	Canada Basin, Chukchi Plateau, Chukchi Abyssal Plain	Soundings, oxygen, hydrogen ion, transparency, phosphate, silicon, plankton, benthos, bottom samples	Somov (1954-55) Gudkovich (1955) Timofeyev (1960) MEDS# 90_08290 NODC# 9050829
50-0008	USSR AIRCRAFT LANDINGS	Mar.31-Apr.28	Temperature Salinity	?	?	2	Canada Basin, Northwind Abyssal Plain, Alpha Ridge, Mendeleyev Ridge, Makarov Basin	SiO_3, O_2, Br, $CaCO_3$, HCO_3, NO_3, PO_4, pH, Ca, K, Mg, Na, TR	Timofeyev (1960)
50-0009	U.S. COAST AND GEODETIC SURVEY	Aug. 1-Sept.18	Water level	?	?	2	Flaxman Island, Collinson Point, Elson Lagoon		National Ocean Service #9498381, 9498758, 9494944
[illegible]0001	USS BURTON ISLAND	Aug.8-Sept.8	Temperature Salinity Current profiles	Reversing thermometer BT Titration Ekman meter, biplane	[±.02,.03C°] [±.2,.2C°] [±.02,04°/oo] ?	3	Alaskan Shelf and Slope, Northwind Ridge and Abyssal Plain, Chukchi Slope, Canada Basin	Plankton hauls, dissolved oxygen, bottom samples, secchi disc	USNHO (1954) NODC# 3150400
51-0010	U.S. COAST AND GEODETIC SURVEY	July 10-?	Water level	?	?	2	Oliktok, Pitt points (Alaskan Shelf)		National Ocean Service #9496092, 9497147
51-0011	OFFICE NAVAL RESEARCH, PROJECT SKIJUMP I	Apr.1-May 3	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	1	Alaskan Slope, Canada Basin		Worthington (1953a) MEDS# 319122320 NODC# 3152232
52-0002	USS BURTON ISLAND	Sept. 11-14	Temperature Salinity	Reversing thermometer, BT Titration	[±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo]	3	Alaskan Shelf and Slope	Dissolved oxygen, bottom samples, silicate, phosphate	USNHO (1954) NODC# 3150400

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
52-0009	OFFICE NAVAL RESEARCH, PROJECT SKIJUMP II	Mar.11-26	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Canada Basin		Worthington (1953a) MEDS# 319122320 NODC# 3152232
52-0010	ICE ISLAND T-3	Nov.29,1952-Aug.1,1955	Temperature Salinity	?	?	3	Alpha Ridge, Makarov Basin	Geophysics, ice studies, benthos, tritium	Worthington (1953b) Worthington (1959) NODC# 3150431
52-0012	U.S. COAST AND GEODETIC SURVEY	Aug.1-Sept.1?	Water level	?	?	2	Harrison Bay, Demarcation Bay, Alaskan Coast		National Ocean Service #9496441, 9499924
54-0001	LABRADOR	Sept.14,18	Temperature Salinity	Reversing thermometer Knudsen titration	[±.02,.03C°] [±.02,.04°/oo]	3	Northwind Ridge, Alaskan Shelf	^2H, ^3H	Bailey (1957) MEDS# 180354189 NODC# 1850172
54-0002	USS BURTON ISLAND	May 12-Sept.14	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Alaskan Shelf	Dissolved oxygen, silicon, nutrients	USNHO (1956) NODC# 3150456, 3152465? MEDS# 31BI24650
54-0013	USSR AIRCRAFT	Apr.13-May 18	Temperature Salinity	?	?	2	Makarov Basin, Lomonosov Ridge, Chukchi Plateau/ Abyssal Plain?		Shcherbakov (1954) Timofeyev (1960)
54-0014	ICE STATION NP-3	Apr.9,1954-Apr.20,1955	Current Temperature Salinity	BPV-2 ? ?	? ? ?	2	Makarov Basin, Lomonosov Ridge, Amundsen Basin	Magnetic, plankton, bottom cores, O_2,Br,$CaCO_3$,pH, HCO_3,NO_3,PO_4,K, SiO_3,SO_4,Ca,Mg, Na	Nikitin and Dem'yanov (1965), Treshnikov and Tolstikov (1956), Husin (1960),Anon (1957) Shanont'ev and Dem'yanov (1957), NODC# 9050539
54-0015	ICE STATION NP-4	Apr.8,1954-Apr.20,1957	Current Temperature Salinity	BVP-2 ? ?	? ? ?	2	Mendeleyev Ridge, Makarov Basin	Magnetic, plankton bottom cores, O_2,Br,$CaCO_3$,pH, HCO_3,NO_3,PO_4,K, SiO_3,SO_4,Ca,Mg, Na	Nikitin and Dem'yanov (1965),Anon (1959,1962) Timofeyev (1960) Kolesnikov (1969) Shamont'ev and Dem'yanov (1957), Treshnikov (1956)
55-0001	USCGC NORTHWIND	July 13-Sept.2	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	2	Alaskan Shelf		NODC# 3150518 MEDS# 31NW05180
55-0015	SCRIPPS, ARCTIC INST. OF N.AM.	Aug., Dec.	Water level	Leopold-Stevens A-25 float	?	3	Barrow		Beal (1957, 1968a)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
55-0016	USS BURTON ISLAND	Aug.6	Temperature Salinity	? ?	?	1	Alaskan Shelf, Stefansson Sound		MEDS# 31BI05180 NODC# 3150518?
55-0017	USSR AIRCRAFT LANDINGS	Apr.24-May 5	Temperature Salinity	? ?	?	2	Lomonosov Ridge, Alpha Ridge, Makarov Basin		Timofeyev (1958, 1960)
55-0018?	USS REQUISITE					1	Alaskan Shelf		USNHO (1958) Atlas
55-0019	USS STATEN ISLAND	Aug.29-Sept.15	Temperature Salinity	? ?	?	2	Alaskan Shelf		USNHO (1958) Atlas NODC# 3150509
56-0001	USS REQUISITE	July 21-26	Temperature Salinity Current profiles	Reversing thermometer Titration ?	[±.02,.03C°] [±.02,.04°/oo] ?	3	Alaskan Shelf and Slope	Transparency	USNHO (1958) MEDS# 31RQ05480 NODC# 3150548
56-0011	IGY PROJECT, SCRIPPS, ARCTIC INST. OF N. AMERICA	July 22,1956 -Dec.1958	Water level	Leopold & Stevens Model A-25	?	3	Barrow		Beal (1968a), IUGG (1959) National Ocean Service #9495048
56-0012	USSR AIRCRAFT LANDINGS	Apr.7-May 9	Temperature Salinity	? ?	?	2	Canada Basin, Alpha Ridge, Mendeleyev Ridge, Chukchi Plateau		Timofeyev (1960)
56-0013	ICE STATION NP-6	Apr.19,1956-Sept.1959	Temperature Salinity? Current	? ?	?	2	Chukchi Slope		Timofeyev (1960) Anon (1962)
56-0014	USS ATKA	Aug.10-23	Temperature Salinity	? ?	?	2	Alaskan Shelf		NODC# 3150547
57-0002	USS ATKA	Aug.1-27	Temperature Salinity Current profiles	Reversing thermometer Titration? ?	[±.02,.03C°] [±.02,.04°/oo] ?	3	Alaskan Shelf and Slope	Transparency	USNHO (1958),Hufford (1973) NODC# 3150571 MEDS# 31AK05710

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
57-0011	ICE FLOE ALPHA	Apr.15,1957-Nov.6,1958	Current Temperature Salinity	Drogue Reversing thermometer, BT Knudsen titration Salinometer	? [±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo] ±.005,.02°/oo	1	Mendeleyev Ridge, Alpha Ridge	Silica, C_{14}, dissolved oxygen, chlorophyll, phosphorous, carbon 14, nitrogen	Cabaniss (1962) Hunkins (1966a) Farlow (1958) English (1961) NODC# 3150978 (1957), 3150911 (1958)
57-0012	USSR AIRCRAFT LANDINGS	May 23	Temperature Salinity	?	?	2	Canada Basin (Mendeleyev Abyssal Plain)		Nikitin (1958)
57-0013	ICE STATION NP-7	Apr.23,1957-Apr.11,1959	Temperature Salinity	?	?	2	Mendeleyev Abyssal Plain, Mendeleyev Ridge, Alpha Ridge	Magnetic	Timofeyev (1960)
57-0014	ICE ISLAND T-3 (BRAVO)	Apr.19,1957-May 15,1958	Temperature Salinity	Reversing thermometer Salinometer, Titration	[±.02,.03C°] ±.005,[.02°/oo] [±.02,.04°/oo]	3	Canada Basin	Chlorophyll a, phosphorous, plankton, oxygen	Cabaniss (1962) Farlow (1958) Apollonio (1958) NODC# 3150978
57-0015	ELDORADO	Aug.5-24	Temperature Salinity	?	?	2	Off Point Barrow		NODC# 3150572
58-0001	USS BURTON ISLAND	Aug.14-Sept.13	Temperature Salinity Current profiles	Reversing thermometer, BT Titration ?	[±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo] ?	3	Alaskan Shelf and Slope, Canada Basin	Bottom sediments, plankton hauls	USNOO (1963a) NODC# 3150574, 3150575
58-0010	U.S. AIRCRAFT LANDINGS	Feb.-May	Temperature Salinity	Reversing thermometer Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Alaskan Shelf and Slope, Canada Basin		Beal (1968a, 1968b)
58-0011	ICE ISLAND T-3, ATL. OC. GROUP	May 26-Sept.28	Temperature Salinity	Reversing thermometer, BT Titration	[±.02,.03C°] [±.2,.2C°] ?,±0.02°/oo?	3	Canada Basin/ Queen Elizabeth Islands Slope	O_2, PO_4	Collin (1959) Cabaniss (1962) MEDS# 180158450 NODC# 1850630
58-0013	USS SKATE (SUBMARINE)	Summer	Temperature? Salinity	?	?	2	Lomonosov Ridge, Amundsen Basin	Deuterium	Friedman et al. (1961)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
58-?	USSR AIRCRAFT LANDINGS	Spring	No information, see write-up in Section 12.			2			Polar Record (1958)
59-0001	ICE ISLAND T-3, Hokkaido U.	Nov.19,1959-July 20,1960	Temperature Salinity	Reversing thermometer, BT Titration	±.02,[.03C°] [±.2,.2C°] [±.02,.04°/oo]	3	Alaskan Slope	O_2, SiO_3	Kusunoki et al. (1962) Kusunoki (1962) Muguruma (1960) Cabanias (1962) NODC# 3150801 MEDS# 31T308010
59-0002	USS STATEN ISLAND	July 31-Sept. 8	Temperature Salinity	Reversing thermometer, BT Conductivity bridge	±.03,[.03C°] [±.2,.2C°] [±.01,.02°/oo]	3	Alaskan Shelf and Slope, Chukchi Slope	Bottom sediment	USNOO (1963b) Hufford (1973) NODC# 3150636
59-0014	US AIRCRAFT LANDINGS	Winter	Temperature Salinity	Reversing thermometer Titration?	[±.02,.03C°] [±.02,.04°/oo]	2	Canada Basin, Alaskan Shelf		Beal (1968a,b)
59-0015	ICE STATION NP-8	Apr.15,1959, Mar.19,1962	Current (profiles?) Temperature Salinity	BPV-2 meter ?	?	2	Chukchi Plateau, Mendeleyev Ridge, Canada Basin		Belyakov (1970)
59-0016	ICE FLOE CHARLIE I, ALPHA II	Apr.13,1959-Jan.7,1960	Temperature Salinity	Reversing thermometer Conductivity bridge	[±.02,.03C°] [±.01,.02°/oo]	3	Chukchi Plateau, Chukchi Abyssal Plain	Dissolved oxygen, phosphate, silica	Quam (1968), Gast (1960) Coachman (pers. comm.)
59-?	USSR AIRCRAFT LANDINGS	[out of area?]	No information. See write up in Section 12.						Nikitin (1960)
60-0001	USS BURTON ISLAND	Aug. 6-Oct. 3	Temperature Salinity	Reversing thermometer, BT Conductivity bridge	[±.02,.03C°] [±.2,.2C°] [±.01,.02°/oo]	3	Alaskan Shelf and Slope	Bottom sediment, plankton	USNOO (1964) NODC# 3150667
60-0002	USCGC NORTHWIND	Oct.15-Nov.8	Temperature Salinity	Reversing thermometer Salinometer?	[±.02,.03C°] ±.01°/oo	3	Alaskan Shelf and Slope		Paquette and Bourke (1974) NODC# 3150841 MEDS# 31NW08410
60-0007	POLAR CONTINENTAL SHELF PROJECT, AIRCRAFT	Apr. 19-June 3	Temperature Salinity	Reversing thermometer BT? Titration?	[±.02,.03C°] [±.2,.2C°] [±.02,.04°/oo]	3	Continental Shelf and Slope off Queen Elizabeth Islands	O_2, plankton hauls, sediment cores	Collin (1961) MEDS# 181160338

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
60-0013	USS STATEN ISLAND	Dec.29	Temperature Salinity	?	?	2	Canada Basin	O_2	MEDS# 31SI06720 NODC# 3150672
60-0014?	ICE STATION NP-9	Apr.16,1960-May 16,1961	Temperature Salinity? Currents	?	?	2	Makarov Basin		Polar Record (1961) Gordienko (1962)
60-0015	ARCTIC RESEARCH LABORATORY, ICE STATION ARLIS I	Sep.25,1960-Mar.17,1961	Temperature	BT Reversing thermometer	[±.2,.2C°] [±.02,.03C°]	3	Canada Basin, Chukchi Slope		Brayton (1962) NODC# 3150761
			Salinity	Titration	[±.02,.04°/oo]				
			Current profiles	Ekman-Merz	?	1			
60-0016	CAN. HYDR. SERVICE	Aug.1, 1960 -June 30,1966; Aug.1, 1967-Feb.28, 1977	Water level	?	?	2	Alert, N. Ellesmere Island		MEDS Stn. #3765
60-0019	US AIRCRAFT LANDINGS	Feb-May	Temperature	Reversing thermometer	[±.02,.03C°]	2	Alaskan Shelf and Slope		Beal (1968b)
			Salinity	?	?				
60-?	USSR AIRCRAFT LANDINGS	Spring	?	No information.	See Section 12.2	2			
61-0024	USS STATEN ISLAND	Sept.6-12	Temperature Salinity	?		2	Alaskan Shelf		Hufford (1973) NODC# 3150689
61-0025	USSR(AIRCRAFT?) ICE STATIONS (Sever-13?)	March-May 17	Temperature Salinity Drift	?	?	2	Makarov Basin		Bushuyev et al. (1967) Polar Record (1961)
61-0026	ARCTIC RESEARCH LABORATORY, ICE STATION ARLIS II	May 23-Nov.	?	?	?	2	Chukchi Slope and Abyssal Plain		P. Church (U. Wash.) J. Cooper (U. Wash.) J. Linhart (Arctic Res. Lab.)
61-0027	ARCTIC INST. OF N. AM., U.S. OFFICE NAVAL RESEARCH	July 9-Sept. 5,1961 and July 27-Aug. 21,1962	Water level Current drift	Staff Dye	[±1 cm,?] ?	3	Point Barrow	Winds	Hume (1963)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
62-0021	USCGC NORTHWIND	Oct.17-18	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] [.01,.02°/oo]	3	Alaskan Shelf and Slope	Benthos, sediment, dissolved oxygen, plankton, secchi disc	USCG (1964) Aagaard (1964) NODC# 3150968
62-0022	ICE CAMPS, PAC.NAVAL LAB.,PAC. OC. GROUP	Apr.27-May 12	Temperature Salinity	Reversing thermometer, BT Salinometer	[±.02,.03C°] [±.2,.2C°] ±.004,[.02]°/oo	3	Canada Basin, Queen Elizabeth Island Shelf	Acoustics, plankton hauls	Herlinveaux (1963) MEDS# 180262784
62-0023	ICE STATION NP-11	Apr.17,1962-Apr.20, 1963	Temperature? Salinity?	?	?	2	Canada Basin, Chukchi Plateau		Polar Record (1963)
62-0024	ICE ISLAND T-3 U.S. UNDERWATER SOUND LABORATORY, LAMONT	Apr.-May	?	?	?	2	Chukchi Slope		Herlinveaux (1963) (no details avail.)
62-?	SEVER-14 USSR AIRCRAFT	Spring & Fall	?	?	?	2			Polar Record (1963)
63-0012	ICE ISLAND T-3	July 12-Dec.15	Current Temperature Salinity	Roberts-Marine Advisors Inc. ?	Direction unreliable ?	3	Canada Basin		Hunkins (1966b, 1967) Hunkins et al. (1969) Newton & Coachman (1974) NODC# 3150483
63-0013	ICE STATION NP-12	May 1,1963-Apr.28,1965	Current Temperature Salinity	BPV-2 meter ?	?	2	Canada Basin, Chukchi Plateau/ Abyssal Plain		Shpaikher et al. (1966) Belyakov (1970)
63-0014	SEVER-15 USSR AIRCRAFT	Spring, Oct.-Nov.	?	?	?	2			Polar Record (1963, 1965a)
63-0015	ICE STATIONS, DEF. RES. BD., MCGILL U.	June 15-18	Temperature Salinity	?	?	2	Ward Hunt Ice Shelf, Disraeli Fiord		Hattersley-Smith and Oliver (1964), MEDS# 180763001
63-0016	ICE STATION ARLIS II	Aug.-Dec. (approx.)	?	?	?	2	Makarov Basin, Lomonosov Ridge		Polar Record (1964) Schindler (1968)
64-0008	DEF. RES. BD., CANADA, MCGILL U.	June 2,3	Temperature Salinity	Reversing thermometer BT Salinometer?	[±.02,.03C°] [±.2,.2C°] [±.01,.02°/oo]	3	Off Nansen Sound	O_2, plankton, botany, ice physics	Hattersley-Smith and Serson (1966) MEDS# 180764001 NODC# 1850178, CODC (1969)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
64-0013	ICE STATION ARLIS II, U. WASHINGTON	Feb.4-Dec.31	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] ±.003,?°/oo	3	Lomonosov Ridge, Amundsen Basin	Dissolved O_2, silicate, phosphate, plankton	Tripp and Kusunoki (1967) NODC# 3150805
64-0014	ICE STATION ARLIS II, HOKKAIDO UNIVERSITY	Feb.-?	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,.04°/oo]	3	Lomonosov Ridge, Amundsen Basin	Dissolved O_2, silicate, phosphate, plankton, deuterium	Kusunoki et al. (1967a,b)
64-0015	ICE STATION NP-13	Apr.15,1964-Apr.26,1967	?	?	?	2	Chukchi Slope, Abyssal Plain	O^{18}	Polar Record (1965a)
64-0016	ICE STATION ARLIS III	Feb.10-May 16	?	?	?	2	Canada Basin?	Telluric currents, geomagnetism	Hessler (1968) Fischer (1968)
64-0017	ICE ISLAND T-3, MCGILL UNIV.	June 23-Sept.8	Temperature Salinity	?	?	2	Canada Basin	Plankton, dissolved oxygen	Dunbar and Harding (1968)
64-0024	CAMSELL, and on foot	July 2-Aug. 3	Salinity	Conductivity meter	?	3	Point Barrow	Chlorophyll a, PO_4,SiO_3, ice, algae	Meguire et al. (1966,1967)
64-?	USSR AIRCRAFT SEVER-16	Mar.-May, Nov.	?	?	?	2	?		Polar Record (1965a, 1965b)
65-0013	ICE ISLAND T-3, UNIV. WASHINGTON	June 6,1965-Jan.12,1966	Temperature Salinity Current profiles Current (bottom)	Reversing thermometer Titration T.S.K.-Ekman Pisa Tubes	[±.02,.03C°] [±.02,.04°/oo] ±5 cm/s,±20° ±15-20% speed,±15°	3	Canada Basin	Dissolved oxygen	Tripp (1966), Galt (1967) NODC# 3151097
65-0014	STATEN ISLAND, POLAR PACK III	July 31-Aug.15	Temperature Salinity	Reversing thermometer Titration	[±.02,.03C°] [±.02,04°/oo]	3	Alaskan Slope/ Canada Basin		CODC ref. no. 008 (Oc. Inf. 120.1PH31-1965) MEDS# 180265008 NODC# 1850186
65-0016	FISH. RES. BD., ARCTIC UNIT, MONTREAL	Apr. 11-19	Temperature Salinity	?	?	2	Canada Basin		MEDS# 180265004 NODC# 1850228
65-0017	ICE STATION NP-14	May 1,1965-Feb.6,1966	?	?	?	2	Chukchi Slope	Silica	Gorshkov (1983) Polar Record (1965b)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
65-0022	ICE CAMP ARLIS IV	Feb.25-May 16	?	?	?	2	Canada Basin		Hessler (1968) Fischer (1968)
65-?	USSR AIRCRAFT SEVER-17	Spring	?	?	?	2	?		Polar Record (1965b, 1967)
66-0014	ICE CAMP, DEF. RES. BD. CANADA, MCGILL UNIVERSITY	June 11-19	Temperature Salinity	?	?	2	N. Ellesmere Island, Disraeli Fiord, M'Clintock Inlet		Hatterslay-Smith and Oliver (1967) NODC# 50181 MEDS# 180766001
66-0015	ICE ISLAND T-3, U. WASHINGTON	Jan.21,1966-Mar.25,1967	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] ±.003,?°/oo	3	Canada Basin, Northwind Ridge, Northwind and Chukchi Abyssal plains	Dissolved oxygen	Tripp (1967) NODC# 3151097
66-0018	LAMONT-DOHERTY, ICE ISLAND T-3	Sept.?	Temperature Salinity	?	?	2	Northwind Abyssal Plain	O^{18}/O^{16}, CO_2, sediment	Van Donk & Mathieu (1969)
66-0019	ICE STATION NP-15	Apr.15,1966-Mar.19,1968	?	?	?	2	Canada Basin, Alpha Ridge	O^{18}	Vetshteyn et al.(1974)
66-0020	ARCTIC RESEARCH COMPANY	June 15&20, Aug.1, 1966 May 29-30 1967, May 15& 17, 1972	Temperature Salinity	Beckman RS-7B Titration	? [±.02,.04°/oo]	2	Point Barrow, EsacKuat Lagoon	Nutrients	Lewellen (1972)
66-?	USSR AIRCRAFT SEVER-18	Spring, Fall	?	?	?	2			Polar Record (1967, 1969)
67-0010	ICE STATIONS, MCGILL UNIV.	May 23-July 10	Temperature Salinity Current profile Water level	Reversing thermometer, BT Salinothermograph Ekman meter ?	[±.02,.03C°] [±.2,.2C°] [limited accuracy ? ?	3 2	Disraeli Fiord	Tritium	Keys et al. (1968) NODC# 1850182 MEDS# 180767002
67-0011	ICE STATIONS, MAR. SC. CENTRE McGILL U.	June 12-19	Temperature Salinity	Reversing thermometer BT Salinometer	[±.02,.03C°] [±.2,.2C°] [±.01,.02°/oo]	3	Lincoln Sea		Seibert (1968) NODC# 1850844, 1851253 MEDS# 182367001

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used T-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
67-0012	ICE ISLAND T-3, LAMONT DOHERTY GEOL. OBS.	Apr.28-May 15	Bottom current	Photographic meter	?	3	Mendeleyev Ridge		Hunkins et al. (1969)
67-0013	DEF. RES. BD. CANADA	May 26-June 25	Temperature Salinity	Reversing thermometer ?	[±.02,.03C°] ?	2	N. Ellesmere Island		Hatterslay-Smith (1968) MEDS# 1807670002 NODC# 1850181
67-0019	ICE ISLAND T-3	June 9-Sept. 4	Temperature Salinity	?	?	2	Mendeleyev Abyssal Plain	O_2	NODC# 3151192
67-0020	ICE ISLAND T-3	Nov.19-20	Temperature Salinity	?	?	2	Canada Basin	O_2	MEDS# 31T313760 NODC# 3151376
67-0021	ICE ISLAND T-3, MCGILL UNIV.	Apr.25-May 7	Temperature Salinity	Thermistor Conductivity bridge	?	3	Mendeleyev Abyssal Plain	Plankton & fish (species & composition) oxygen, silicate, phosphate	Hansen et al. (1971)
67-0024	ICE ISLAND T-3, U. WASHINGTON, DEPT. ATM. SC.	Jan.8-21	Temperature (5 m depth)	?	?	3	Chukchi Abyssal Plain	CO_2, air temperature, wind speed	Kelly (1968)
67-?	USSR AIRCRAFT SEVER-19	Spring	?	?	?	2	?		Polar Record (1969)
68-0008	CANADIAN HYDROGRAPHIC SERVICE	May 1-June 30?	Water level	?	?	2	Off Nansen Sound		MEDS Stn #6704
68-0015	ICE STATIONS, NAT. RES. COUNCIL	May 11-June 15	Temperature Salinity	?	?	2	Mouth of Nansen Sound		MEDS# 180968001
68-0016	DEF. RES. BD. CANADA	May 8-July 29	Temperature Salinity Current profile Water level	? Ekman meter ?	?	2	Disraeli Fiord		Hatterslay-Smith (1969) MEDS# 180968002 MEDS WL #6730
68-0017	CGC NORTHWIND	Aug.13-20	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf and Slope, Chukchi Slope	Dissolved oxygen, PO_4, NH_3, NO_2, NO_3, SiO_3	Burrell et al. (1970) cruise 753 MEDS# 31NW21770 NODC# 3152177

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
68-0018	ICE ISLAND T-3	May	Current profiles	?	?	2	Canada Basin		Hunkins (unpubl.) Bernstein (1972)
68-0019	ICE ISLAND T-3	Mar.29, Apr.6	Temperature Salinity	?	?	2	Canada Basin	SiO_3,DOC,POC, NO_2,NO_3,PO_4,O_2	MEDS# 31T321700 NODC# 3152170
68-0020	ICE ISLAND T-3	June 23-Sept. 8	Temperature Salinity	?	?	2	Canada Basin, Mendeleyev Ridge, Alpha Ridge	O_2	MEDS# 31T313770 NODC# 3151377
68-0021	ICE STATION NP-16	Apr.1968-Mar.1972	Temperature Salinity	?	?	2	Mendeleyev Ridge, Alpha Ridge, Chukchi Slope	Dissolved oxygen, pH O^{18},silicon	Alekseev and Buzuev (1973) Vetshteyn et al. (1974)
68-0023	NORTHWIND	July 28-Aug. 2	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Chukchi Sea, Bering Strait	Dissolved oxygen, carbon, phosphate, nitrogen, silicate, ammonia	Kinney et al. (1970b) cruise 751,NODC# 3152173 MEDS# 31NW21730
68-0031	U. ALASKA	Dec.1968, Apr.,June, & Aug.,1969	Salinity	Salinometer	[±.01,.02°/oo]	3	Elson Lagoon, Point Barrow	pH, ice cores, chlorophyll a, plankton (species,abundance,^{14}C uptake)	Allen (1970)
68-?	STATEN ISLAND	?	?	?	?	2	?		Burrell et al. (1970)
68-?	USSR AIRCRAFT SEVER-20	Spring	?	?	?	2	?		Polar Record (1969)
69-0001	USS STATEN ISLAND	Aug.3-21	Temperature Salinity	Reversing thermometer Salinometer?	[±.02,.03C°] [±.01,.02°/oo]	3	Canada Basin, Alaskan Shelf and Slope	Dissolved, oxygen, PO_4, nutrients, NH_3, NO_2, SiO_3, sediment	Burrell et al. (1970) MEDS# 31SI21750 NODC# 3152175
69-0021	ICE STATIONS, NRC, HALIFAX	May 16-23	Temperature Salinity	?	?	2	M'Clintock Inlet, Disraeli Fiord, Markham Inlet, N. Ellesmere Island		MEDS# 180969001
69-0022	U. ALASKA, CESSNA 180	Sept.4,1969 Mar.10,1970	Salinity	?	?	2	Alaskan Shelf, Harrison Bay	Nutrients, O_2, Zn	Kinney et al. (1971) Schell (1975)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
69-0024	ICE ISLAND T-3	Apr.29-May 3	Temperature Salinity	?	?	2	Alpha Ridge	O_2, DOC, PC, PN, NO_3, NO_2, PO_4, SiO_3	MEDS# 31T321710 NODC# 3152171
69-0025	ICE ISLAND T-3	June 21-Sept.26?	Temperature Salinity	?	?	2	Alpha Ridge	O_2	MEDS# 31T315710 NODC# 3151571
69-0026	U. ALASKA	Sept.1969-1972?	Water level	Bubbler pressure gauge	?	3	Point Barrow (Eluikak Pass)		Matthews (1970,1971)
69-0027	ICE ISLAND T-3, OREGON STATE UNIVERSITY	March 19	Temperature	XBT	±.002,?C°	3	Alpha Ridge		Neal et al. (1969)
69-0028	ICE ISLAND T-3, OREGON STATE UNIVERSITY	Nov.	Temperature Salinity Current profiles	Geodyne CTD Savonius rotor	±0.001,?C° ±1 micro mho/cm,? ±1cm/sec threshold	3	Canada Basin		Neshyba et al. (1971)
69-0029	ICE STATION NP-19	Nov.11,1969 -April 1973	?	?	?	2	Chukchi Slope		Legenkov et al. (1974)
69-?	USSR AIRCRAFT SEVER-21/69	Spring	?	?	?	2	?		Polar Record (1970)
70-0001	AIDJEX'70 PILOT PROJECT	Mar.12-Apr.5	Temperature Salinity Under-ice currents	Reversing thermometer Salinometer Braincon 316	?,±.01C° ?,±.01°/oo ?	1	Canada Basin		Coachman and Smith (1971) MEDS# 314K16770 NODC# 3151677
70-0021A	U. ALASKA, SNOW MACHINE & CESSNA 180	May 23-30	Salinity	?	?	3	Harrison Bay, Simpson Lagoon	O_2, SiO_3, PO_4, NO_2, NO_3, NH_4, Diss. N, P, pH, chlorophyll a, alkalinity, sediment	Kinney et al. (1971) Alexander et al. (1975)
70-0021B	U. ALASKA, SMALL BOAT	Aug.8-Sept.1	Salinity Drift	? Drogues, oranges	?	3	Harrison Bay, Simpson Lagoon	O_2, SiO_3, PO_4, NO_2, NO_3, NH_4, Diss. N, P, pH, chlorophyll a, alkalinity, sediment, fish species and abundance	Kinney et al. (1971) Alexander et al. (1975)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used T-Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
70-0021C	U. ALASKA, SNOW MACHINE	Dec.3-5	Salinity	?	?	3	Harrison Bay, Simpson Lagoon	O_2, SiO_3, PO_4, NO_2, NO_3, NH_4, Diss. N, P, pH, chlorophyll a, alkalinity, sediment	Kinney et al. (1971) Alexander et al. (1975)
70-0022	ICE ISLAND T-3, LAMONT-DOHERTY GEOL. OBS.	Nov.25,1970-Feb.3,1971	Current	Marine Advisors Q-9	?	3	Alpha Ridge		Bernstein (1971, 1972)
70-0025	NATIONAL RESEARCH COUNCIL	May 18	Temperature Salinity	?	?	2	Rens Fiord (Axel Heiberg Island)		NEDS# 180970001
70-0026	ICE ISLAND T-3	Jan.17-May 10	Temperature Salinity	Reversing thermometer ?	[±.02,.03C°] ?	3	Alpha Ridge	O_2	Smith and English (1973) NEDS# 31T316780 NODC# 3151678
70-0027	ICE ISLAND T-3	June 7-Dec.2	Temperature Salinity	Reversing thermometer ?	[±.02,.03C°] ?	3	Alpha Ridge	O_2, NO_3, PO_4, SiO_3	Smith and English (1973) NEDS# 31T317080, NEDS# 31T319730 NODC# 3151973
70-0028	ICE STATION NP-20	Apr.1970-May 1972	?	?	?	2	Mendeleyev Abyssal Plain		Polar Record (1972)
70-0029	ICE ISLAND T-3, OREGON STATE UNIV.	Dec.5-8,1970 March 30 & Nov.26-27, 1971	Temperature profiles	XBT	±.002,?C°	3	Alpha Ridge		Neal and Neshyba (1973)
70-0035	U.S. GEOLOGICAL SURVEY	June 19-Sept.19	Temperature Salinity	Beckman RS5	?,±.5C° ?,±1.0°/oo	3	Simpson Lagoon	Sediment, ice, secchi	Barnes et al. (1973)
70-0036A	U. ALASKA	May 6-Sept.25	Salinity	RS7-B salinometer	[±.01,.02°/oo]	3	Point Barrow	Ice cores, secchi, plankton, nutrients	Horner (19??)
70-0036B	U. ALASKA	Nov.21-30	Salinity	RS7-B salinometer	[±.01,.02°/oo]	3	Point Barrow	Ice cores, secchi, plankton, nutrients	Horner (19??)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
70-?	USSR AIRCRAFT SEVER-22	Spring	?	?	?	2	?		Polar Record (1971)
71-0003	AIDJEX'71 PILOT STUDY	Mar.16-Apr.7	Temperature Salinity Current	Reversing thermometer Salinometer? Braincon 316, Aanderaa RCM4	[±.02,.03C°] [±.01,.02°/oo]	3	Canada Basin		Hunkins (1972) MEDS# 314K19470 NODC# 3151974
71-0013	LOUIS S. ST. LAURENT, DEF. RES. EST. OTTAWA	Aug.22	Temperature Salinity	Reversing thermometer Salinometer	[±.01],.02C° ±0.0005,0.02°/oo	3	Lincoln Sea, Nares Strait	O_2	Herlinveaux & Sadler (1973) MEDS# 180271014 NODC# 1850776
71-0020	USCGC GLACIER, WEBSEC-71	Aug.20-Sept.16	Temperature Salinity CN profiles	Reversing thermometer Bottles, STD Hydroproducts 501, Geodyne 102	[±.02,.03C°] ? ?	3	Alaskan Shelf and Slope	XBT, dissolved oxygen, nutrients, sediment, benthos (species and abundance)	Hufford et al. (1974) MEDS# 31GL82860 NODC# 3158286
71-0021	RV NATCHIK, WEBSEC-71	Aug.-Sept.?	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	Sediment (chem. comp.)	Hufford et al. (1974)
71-0022A	U. ALASKA	Aug.14-Sept.1	Current Drift	Aanderaa Cards, drogues	?	1	Simpson Lagoon		Kinney et al. (1972a) Dygas (1975)
71-0022B	U. ALASKA, EPA, NOAA	July 28-Aug. 15	Salinity	?	?	2	Simpson Lagoon, Colville River Delta	Nutrients, plankton, sediment (chem. comp.)	Kinney et al. (1972b) Alexander (1974)
71-0023	USCGC NORTHWIND MIZPAC '71	July 30-Aug.20	Temperature Salinity	Bissett-Berman 9006 STD, Beckman RS5	±.014C° ±.02°/oo [±?,.1°/oo]	1	Point Barrow, Alaskan Shelf		Paquette and Bourke (1973)
71-0024	APP. PHYS. LAB, U. WASHINGTON, ICE CAMP/ NORTHWIND; MIZPAC'71B	July 31-Aug.23	Temperature Salinity Current	Thermistor NUS Cond. cell Savonius	[±.02,.03C°] [±.01,.02°/oo] ?	3	Off Barrow, Alaskan Shelf	Plankton, acoustics	Garrison & Pence (1973)
71-0025	U. ALASKA, EPA, NOAA	May 7-15	Temperature Salinity	? Beckman Salinometer	? [±.01,.02°/oo]	2	Simpson Lagoon	Dissolved oxygen, nutrients, silicate	Kinney et al. (1972b) Schell (1975)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
71-0026	U. ALASKA, TRACTOR-TRAIN, EPA, NOAA	Apr.-May	Temperature Salinity	? Beckman salinometer	? [±.01,.02°/oo]	2	Point Barrow to Harrison Bay (Alaskan Shelf)	Diss.oxygen, nutrients, silicate, sediment (chem. comp.)	Kinney et al. (1972b) Schell (1975)
71-0031	ICE ISLAND T-3, U.WASH.	June 5-Sept.25	Temperature Salinity	?	?	3	Alpha Ridge	O_2, NO_3, PO_4, SiO_3,	Smith and English (1973) MEDS# 31T319730 NODC# 3151973
71-0032	ICE ISLAND T-3, U.WASH.	Nov.9-30 -Dec.?	Temperature Salinity	?	?	3	Alpha Ridge	O_2	Smith and English (1973) Tripp (U. Wash.) MEDS# 31T319750 NODC# 3151975
71-0033	LOUISIANA STATE U./ U. OF ALASKA?	May 8-Aug.12	Temperature Salinity	Beckman RS5	[±0.1C°] [±0.1°/oo]	3	Colville River Delta		Schell and Hall (1972) Walker (1974)
71-0034	ICE ISLAND T-3, U.WASH.	Jan.-June	Temperature Salinity	?	?	2	Alpha Ridge?		Morison & Smith (1981)
71-0035	U. ALASKA, NOAA	Mar.27, May 10,1971; July 24-29, Aug.15-19, 1971; Feb.2, May 18 & 25, 1972; Aug.11-15, 1972	Temperature Salinity	Beckman RS5	? [±.1°/oo]	3	Prudhoe Bay	Chlorophyll a, plankton, nutrients, turbidity	Horner (1972) Horner et al. (1974)
71-0036	CANADIAN HYDROGRAPHIC SERVICE	June 1-July 31?	Water level	?	?	2	Disraeli Fiord		MEDS WL# 6730
71-0040	USGS, MATCHIK, LOON, & GLACIER	Aug.19-Sept.20	Temperature Salinity	Beckman RS5	?,±.5C° ?,±1.0°/oo	3	Prudhoe Bay, Simpson Lagoon	Hydrocarbons, sediment, transmissivity, bottom photos, particulates	Barnes et al. (1973)
71-0042	U.ALASKA	May 10-Sept.9	Salinity	Beckman RS7B inductive salinometer	[±.01,.02°/oo]	3	Barrow	Ice, nutrients, benthos (species and and abundance)	Horner (1972)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
71-0043	U.ALASKA	June 2-4	Salinity	Salinometer	[±.01,.02°/oo]	3	Harrison Bay, Smith Bay, Dease Inlet, Peard Bay	Chlorophyll a, nutrients, primary productivity	Horner (1972)
71-0044	U.ALASKA	Mar.13-27	Temperature Salinity	? Salinometer	[±.01,.02°/oo]	3	Barrow, Prudhoe Bay	Nutrients, primary productivity	Horner (19??)
71-?	USSR AIRCRAFT LANDINGS, SEVER-23	Spring	?	?	?	2			Polar Record (1972)
72-0027	USCGC GLACIER, WEBSEC-72, U.S. COAST GUARD	Aug.5-Sept.6	Temperature Salinity CM profiles Current	Reversing thermometer Bottles, CTD Geodyne 102 Geodyne 850	[±.02,.03C°] ? ? ±2 cm/s,±10° accuracy	3	Alaskan Shelf and Slope	XBT,nutrients, diss.oxygen, mercury,plankton, benthos (species and abundance)	Hufford et al. (1974) Hufford (1975) MEDS# 31GL83280 NODC# 3158328
72-0028	RV NATCHIK WEBSEC-72, U.S. COAST GUARD	Aug.-Sept.?	Temperature Salinity	Reversing thermometer Salinometer?	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	Transmissivity, sediment (chem. comp., grain size,mineralogy), secchi	Hufford et al. (1974)
72-0029A	U. ALASKA, EPA, NOAA	Aug.11-Sept.18	Current Surface drift	Aanderaa Drift cards	?	3	Simpson Lagoon	Winds	Dygas and Burrell (1976)
72-0029B	U. ALASKA, EPA, NOAA	July 29-Nov.15	Temperature Salinity	? Beckman salinometer	? ?	2	Simpson Lagoon	Dissolved oxygen, nutrients, plankton	Schell (1975) Alexander et al. (1975)
72-0030	APL-U. WASH. ICE CAMP, STATEN ISLAND	Apr.29-Aug.14	Temperature Salinity Current profiles	CTD Savonius rotor	±.001,.05C° ±.05,.2°/oo	3	N.E. Chukchi Sea		Garrison et al. (1973)
72-0031	LOUISIANA STATE UNIV., U.S. OFFICE NAVAL RESEARCH	Apr.-Oct.	Longshore drift Temperature Salinity	Drogues STD	?	2	Simpson Lagoon		Short (1973) Wiseman et al. (1973)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
72-0032	U.S. GEOL. SURVEY, LOON, NATCHIK & GLACIER	May 21-Sept.6	Surface drift Current profiles Temperature Salinity	Drift cards Bendix Q-9 Beckman RS5	? ? ?,±.5C° ?,±1.0°/oo	3	Prudhoe Bay Simpson Lagoon, Stefansson Sound	Turbidity, particulates, sediment, geological observations, ice	Barnes et al. (1973) Barnes and Reimnitz (1973b) Barnes and Garlow (1975)
72-0033	ICE ISLAND T-3, U.WASH.	Jan.-Dec.	Temperature Salinity	?	?	3	Alpha Ridge		Morison and Smith (1981)
72-0034	U.ALASKA	?	Temperature Salinity	?	?	2	Colville River Delta		Kogl and Schell (1975)
72-0035A	AIDJEX '72 PILOT STUDY, LAMONT-DOHERTY	Mar.15-Apr.26	Temperature Salinity Current	Bissett-Berman 9040 CTD Bendex/Marine Advisers Q-9 Geodyne 850	? ? 3	1	Canada Basin	Nutrients, light scattering	Hunkins and Amos (1972) MEDS# 314K21150 NODC# 3152115
72-0035B	AIDJEX'72 PILOT STUDY, U. WASHINGTON	Mar.12-Apr.11	Temperature Salinity Current	Reversing thermometer Salinometer Aanderaa RCM 4, Braincon 316	?,±.02C° ?,±.01°/oo	3	Canada Basin		Newton and Coachman (1973b)
72-0035C	AIDJEX'72 PILOT STUDY, U. WASHINGTON	Mar.13-Apr.26	Current	U. Wash.	?	3	Canada Basin		Smith (1972)
72-0035D	AIDJEX'72 PILOT STUDY, MCGILL U.	?	Temperature Salinity	?	?	1	Canada Basin		Founder and Langleben (1972)
72-0035E	AIDJEX'72 PILOT STUDY, U. CALIFORNIA	Mar.27 Apr.14	Current speed	?	?	2	Canada Basin		Goddard (1972)
72-0035F	AIDJEX'72, U.ALASKA	Apr.22-24	Salinity	?	?	3	Canada Basin	Ice, nutrients, chlorophyll a	Horner (1972)
72-0038	NAT. RESEARCH COUNCIL	May 7	Temperature Salinity	?	?	2	Rens Fiord (Axel Heiberg Island)		MEDS# 180972001
72-0039	NAT. RESEARCH COUNCIL	July 7	Temperature Salinity	?	?	2	Lincoln Sea		MEDS# 180972002

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
72-0040	STATEN ISLAND	July 1-17	Temperature Salinity	Reversing thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf, Chukchi Sea	O_2, PO_4, NO_2, NO_3, SiO_3	Hufford et al. (1974) USCG 373-64 MEDS# 31SI21830 NODC# 3152183
72-0041	BURTON ISLAND, NIZPAC'72	July 28-Aug.19	Temperature Salinity	Bissett-Berman 9006 STD	[+.001,.02C°] [∓.001,.04°/oo]	1	Point Barrow, Alaskan Shelf	O_2	Paquette and Bourke (1973)
72-0045	U.ALASKA	Jan.28-May 10	Salinity	Salinometer	[±.01,.02°/oo]	3	Barrow	Nutrients, primary prod.	Horner (1972)
72-?	USSR AIRCRAFT SEVER-24	Spring	?	?	?	2	?		Polar Record (1972)
73-0026	BURTON ISLAND, APL-U.WASHINGTON	Aug.3-11	Temperature Salinity	CTD	±.02,.1C° ∓.05,.2°/oo	3	Point Barrow, Alaskan Shelf		Garrison and Becker (1975)
73-0027	U. WASHINGTON, U.S. OFFICE NAVAL RESEARCH	Apr.18-Aug.17	Current	Aanderaa RCM 4	?,±1 cm/s ?,±3°	3	Barrow Canyon		Mountain et al. (1976)
73-0028	U. ALASKA	Feb.9, Apr.9	Temperature Salinity	? Beckman salinometer	? [±.01,.02°/oo]	2	Point Barrow-Lagoons	Dissolved oxygen, nutrients	Schell (1974, 1975)
73-0033	USSR AIRCRAFT SEVER-25	Spring & Fall	?	?	?	2	?		Polar Record (1976) Treshnikov et al. (1976)
73-0034	ICE ISLAND NP-22	Sept.1973-<May 1981	Temperature Salinity	?	?	2	Mendeleyev Ridge, Canada Basin, Chukchi Slope	DOC, POC, PO_4, SiO_3, plankton, dissolved oxygen, benthos, bottom sediments	Mel'nikov (1976) MEDS# 90NP77022
73-0035	ICE ISLAND T-3, U.WASH.	Jan.-Dec.	Temperature Salinity	?	?	3	East Alpha Ridge	Tritium	Morison and Smith (1981) Ostlund (1982)
73-0037	U.S. GEOL. SURVEY	June 1-mid-Aug.	Current	Geodyne	?	2	Alaskan Shelf (Thetis Island)		Reimnitz and Barnes (1974) Barnes (pers. comm.)
73-0038	LOUISIANA STATE U.	May 15-June 14	Temperature Salinity	Thermistor Beckman RS5	? [±?,.01°/oo]	3	Colville River Delta	Nutrients, sediment	Hamilton et al. (1974,1976) Walker (1974)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
73-0043	GLACIER, WEBSEC'73	July 28-Aug.12	Temperature Salinity	Reversing thermometer Beckman RS-7A salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	Plankton (species and abundance), sediment (chem. comp.)	Horner (1981)
73-0045	U.S.-JET PROPULSION LAB.	June 28, July 8,15, 22, Aug.8	Temperature Salinity	Beckman RS5	[±?,.5C°] [±?,1.0°/oo]	3	Prudhoe Bay	Oxygen, pH, nutrients	Atlas (1973)
74-0037	APL-U. WASH. ICE CAMP	Apr.12-22	Temperature Salinity Current profiles	CTD ?	±.02,.1C° ±.05,.2°/oo	1	Point Barrow, Alaskan Shelf		Garrison and Becker (1975) Garrison (1976)
74-0038	BURTON ISLAND APL-U. WASH.	July 28-29	Temperature Salinity	CTD	?	3	N.E. Chukchi Sea		Garrison and Becker (1975)
74-0039	STATEN ISLAND, APL-U. WASH.	Sept.18-20	Temperature Salinity	APL CTD	[±.02,.1C°] [±.01,.15°/oo]	3	Off Barrow, Alaskan Shelf		Garrison and Becker (1975)
74-0046	AIDJEX LEAD EXPERIMENT, U. WASHINGTON	Mar.19-Apr.10	Temperature Salinity Current	CTD ?	?,±.001C° ?,±.02°/oo ?	3 2	Off Point Barrow, Alaskan Shelf		Smith (1974a)
74-0047	SOVIET AIRCRAFT SEVER-26	Spring & Fall	?	?	?	2	?		Polar Record (1976)
74-0048	STATEN ISLAND, MIZPAC'74?	Aug.10-15	Temperature Salinity	?	?	2	Point Barrow, N.E. Chukchi Sea	O_2, chl. a	MEDS# 31SI25470 NODC# 3152547
74-0051	STATEN ISLAND, U. ALASKA	Aug.19-Sept.5	Temperature Salinity	Reversing thermometer Beckman RS-7A Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	chl. a	Horner (1981)
75-0005A	AIDJEX MAIN EXPERIMENT	Apr.4,1975-Apr.25,1976	Temperature Salinity	Plessey 9040 STD/CTD	?,±0.05C° ?,±0.04°/oo	3	Canada Basin		Bauer et al. (1980)
75-0005B	AIDJEX MAIN EXPERIMENT	Apr.8,1975-Apr.22,1976	Current profiles	TSK	?speed ±6° direction	3	Canada Basin		Manley et al. (1980)
75-0005C	AIDJEX MAIN EXPERIMENT	?	Current	Hydro-Products	?,?	2	Canada Basin		NODC-hourly values

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
75-0052	HELICOPTER, U. WASHINGTON, OCSEAP	Oct.26-Nov.10	Temperature Salinity	Plessey CTD	[?,±.02C°] [?,±.02°/oo]	3	Alaskan Shelf and Slope		Aagaard (1976) Aagaard (1981a)
75-0053	ICE CAMP, APL-U. WASH.	Mar.27-Apr.8	Temperature Salinity Current profile	APL CTD Marsh McBirney (EM)	?	3	Point Barrow, Alaskan Shelf		Garrison (1976)
75-0054	AIRCRAFT, APL-U. WASH.	Apr.23-27	Temperature Salinity	APL CTD	?	3	N.E. of Barrow, Alaskan Shelf		Garrison (1976)
75-0055	AIRCRAFT, APL-U. WASH.	May 14-19	Temperature Salinity	APL CTD	?	3	N.E. of Barrow, Alaskan Shelf		Garrison (1976)
75-0056	HELICOPTER, APL-U. WASH.	Oct.23-Nov.6	Temperature Salinity	APL CTD	?	3	Point Barrow		Garrison (1976)
75-0057	RV KARLUK, U.S. GEOL. SUR.	Sept.	Temperature (Surface) Salinity (Surface)	 Cond. cell	±?,0.5C° ±?,0.5°/oo	3	Harrison Bay, Simpson Lagoon	Transmissivity	Barnes, Reimnitz, Drake and Toimil (1977)
75-0058	EPA, PRUDHOE BAY POLLUTANT TRANSPORT PROJECT	Aug.7-29	Water level	Bass Eng. optical level	?	3	Stockton Island, Thetis Island		Calloway and Koblinsky (1976)
75-0059	ALASKA DEPT. OF FISH & GAME	July 31-Sept.22	Temperature Salinity	YSI CTD	[,±.1C°] [,±.3°/oo]	3	Prudhoe Bay area	Biological-fish studies	Bandock (1977) NODC F123/TR0642
75-0066	MIZPAC'75	?	?	?	?	2	?		Zuberbuhler & Roeder (1976)
75-0067	ICE STATION NP-23	Dec.1975-Nov.22,1978	?	?	?	2	Chukchi Shelf, Amundsen Basin		Polar Record (1977, 1978)
75-0068	OSI FOR AMOCO	Winter 1975-1976	Temperature Water level Current?	?	?	2	Between Cape Halkett and Tigvariak Is.	Ice movement, wind	OSI (1976)
75-0072	U. OF LOUISVILLE/ OCSEAP	Aug.20-Oct.15,1975; Mar.15-Apr.18,1976	Temperature Salinity	YSI meter	[?,±.1C°] [?,±.3°/oo]	3	Prudhoe Bay, Barrow	Nutrients, sediment (ph, chem. comp.), ice	Atlas (1975, 1979) Morita & Griffiths (1975)
75-?	USSR AIRCRAFT LANDINGS, SEVER-27	Spring & Fall	?	?	?	2	?		Polar Record (1976)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
76-0037	HELICOPTER, U. WASHINGTON/ OCSEAP	Feb.20-29	Temperature Salinity	Plessey CTD	[,±.02C°] [,±.02°/oo]	3	Alaskan Shelf and Slope		Aagaard (1981a)
76-0038	U. WASHINGTON/ OCSEAP	Mar.28-Apr.22	Current	Aanderaa	?	3	Alaskan Shelf		Aagaard and Haugen (1977) Aagaard (1981a)
76-0039	HELICOPTER, U. WASHINGTON/ OCSEAP	May 19-Sept.1	Temperature Salinity Current	? Aanderaa?	?	3	Alaskan Shelf and Slope		Aagaard (1981a) Aagaard and Haugen (1977)
76-0040	HELICOPTER, U. WASHINGTON/ OCSEAP	Oct.31-Nov.4	Temperature Salinity	Plessey CTD	[,±.02C°] [,±.02°/oo]	3	Alaskan Shelf and Slope		Aagaard (1981a)
76-0041	U. ALASKA, U.S. GEOL. SUR.	July 31-Sept.22	Current Water level	Aanderaa RCM-4 Aanderaa	?	3	Stefansson Sound	Transmissivity	Barnes, Reimnitz, Smith and Melchior (1977); Barnes, Reimnitz and McDowell (1977)
76-0042	USCGC GLACIER, HELICOPTERS/ OCSEAP	Aug.8-20	Current drift	Expendable current probes	?, ±1cm/s	3	Alaskan Shelf		Hufford et al. (1977)
76-0043	HELICOPTER, APL-U. WASH.	Apr.6-11	Temperature Salinity	APL-UW CTD	? ,±.05°/oo	3	Alaskan Shelf and Slope		Garrison (1977)
76-0044	HELICOPTER, APL-U. WASH.	Sept.4-20	Temperature Salinity	APL-UW CTD	? ,±.05°/oo	3	Alaskan Shelf and Slope		Garrison (1977)
76-0045	ALASKA DEPT. OF FISH & GAME	June 22-Sept.21	Temperature Salinity	YSI CTD	[,±.1C°] [,±.3°/oo]	3	Prudhoe Bay area	Winds, sea state, biological (fish)	Bendock (1977) NODC F123/TR2380
76-0046	ALASKA DEPT. OF FISH & GAME	Mar.21	Temperature Salinity	YSI CTD	[,±.1C°] [,±.3°/oo]	3	Prudhoe Bay area	Dissolved O_2, biological sampling (fish species & abundance)	Bendock (1977)
76-0051	LOUISIANA STATE UNIV.	Aug.12,22, Sept.6	Surface drift Temperature Salinity	Drogues InterOcean CTD	? ,±.05C° ,±.05°/oo	2	Peard Bay, N.E. Chukchi Sea		Wiseman (1979)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
76-0053	CANADIAN HYDROGRAPHIC SERVICE?	Aug.1-Sept.30?	Water level	?	?	2	N. Ellesmere Is.		MEDS WL# 6735
76-0054	OSI FOR AMOCO	Winter 1976-1977	Temperature Water level Current	?	?	2	Cape Halkett to Brownlow Point	Ice movement, wind, ice strain	OSI (1978)
76-0055	NOAA/NAT. OCEAN SERVICE	1976 to present	Water level	?	?	3	Prudhoe Bay		NOAA(1979) Nat. Ocean Service Station #9497649
76-0057A	GLACIER/ OCSEAP	Aug.17-Sept.2	Temperature Salinity	Reversing thermometer Beckman RS-7A salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	Plankton, NH_3, NO_3, PO_4,chl. a	Horner (1981)
76-0058	U.S. ARMY (CRREL) FOR OCSEAP	Mar.?-May?	Salinity	?	?	3	Prudhoe Bay	Sediment($CaCO_3$, OC) Ca, Mg, Na, HCO_3, K, SiO_3	Iskandar et al. (1978)
76-?	USSR AIRCRAFT, SEVER-28	?	?	?	?	2	?		Polar Record (1977)
77-0044	HELICOPTER, U. WASHINGTON/ OCSEAP	Mar.4-Oct.20	Temperature Salinity Current	Plessy Model 9400 CTD Aanderaa	[,±.02C°] [,±.02°/oo]	3	Alaskan Shelf and Slope		Tripp (1977) Aagaard (1978a,b) Aagaard (1981a) NODC TR1854
77-0045	U. WASHINGTON/ OCSEAP	Nov.13,1977 Oct.30,1978	Current	Aanderaa	?	3	Alaskan Slope		Aagaard (1981a)
77-0046	APL-U. WASH.	Apr.9-15	Temperature Salinity	APL-UW CTD	?	3	Point Barrow, Alaskan Shelf		Garrison et al. (1979)
77-0047	APL-U. WASH.	June 9-27	Temperature Salinity	APL-UW CTD	?	3	Point Barrow, Alaskan Shelf		Garrison et al. (1979)
77-0048	APL-U. WASH.	July 13-17	Temperature Salinity	APL-UW CTD	?	3	Point Barrow, Alaskan Shelf		Garrison et al. (1979)
77-0049	BURTON ISLAND, APL-U. WASH. MIZPAC'77	July 25-Aug.5	Temperature Salinity	APL-UW portable CTD	?,±.04C° ?,±.02°/oo	3	Point Barrow, Alaskan Shelf		Garrison et al. (1979) Paquette and Bourke (1978) Graham (1978)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
77-0050	ICE CAMP APLIS, APL-U. WASH.	May 28-July 19	Temperature Salinity Current profile	APL-UW CTD Marsh-McBirney EM	?	3	Point Barrow, Alaskan Shelf		Garrison et al. (1979)
77-0051	TEXAS A&M U., OCSEAP, SMALL BOAT & HELICOPTER	Aug.7-24	Temperature Salinity Current profile	Beckman RS5-3 Hydroproducts	?,±0.1C° ?,±0.1°/oo	3	Simpson Lagoon, Prudhoe Bay	Wind, waves, bathymetry	Mungall et al. (1978)
77-0052	U. ALASKA, R.V. ALUMIAK/ OCSEAP	Aug.8-Sept.16	Current Water level Surface drift Temperature Salinity Current profile	Aanderaa Aanderaa Woodhead drifters Nansen cast, RS5A Hydroproducts (deck readout)	?	3	Prudhoe Bay, Simpson Lagoon		Matthews (1978)
77-0053	UNIV. OF S. CAROLINA	Aug.5-10	Longshore drift	Surface floats	?	3	Point Barrow, Prudhoe Bay	Wind, waves	Nummedal et al. (1978)
77-0054	ALASKA DEPT. OF FISH & GAME	June 29-Sept.21	Temperature Salinity	YSI CTD	[,±.1C°] [,±.3°/oo]	3	Simpson Lagoon	Biological-fish studies, air temperature	Bendock (1977) NODC F123/TR8215
77-0055	U.S. GEOL. SURVEY	1977-78	Bottom current	Seabed drifters	?	3	Harrison Bay		Barnes and Toimil (1979)
77-0056	HELICOPTER?	Aug.14-15	Surface currents	Expendable probes	?	3	Harrison Bay		Hufford, unpubl. data Aagaard (1978c)
77-0063	U. ALASKA	Mar.30-31, May 23	Temperature? Salinity?	?	?	2	Barrow lagoons	Nutrients	Schell (pers. comm.)
77-0069A	GLACIER, OCSEAP	Aug.4-Sept.5	Temperature Salinity	Reversing thermometer Beckman RS-7A salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf, Alaskan Slope, Canada Basin	Plankton (species and abundance), secchi, chl. a	Horner (1981)
77-?	USSR AIRCRAFT SEVER-29	?	?	?	?	2	?		Polar Record (1978)
78-0032	U. WASHINGTON, OCSEAP	Mar.11-Oct.7	Current	Aanderaa RCM 4	[±1cm/s or 2% speed] [±.35, 7.5° dir.]	3	Alaskan Slope		Darnall (1978) Aagaard (1981a)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
78-0033	U. ALASKA, HELICOPTER/ OCSEAP	May 13-Sept.23	Temperature? Salinity?			2	Egg Island, Milne Point, (Prudhoe Bay area)		Matthews (1979)
			Current	Aanderaa		3			
			Water level	Aanderaa					
			Drift	Woodhead drifters					
78-0034	TEXAS A&M U., KINNETIC LAB./ OCSEAP	July 20-Aug.22	Temperature	RS5?	?	2	Simpson Lagoon	Waves	Mungall and Whitaker (1978)
			Salinity						
			Surface drift	Drogue		3			
			Current	Marsh McBirney sensor (EM)					
78-0035	PRUDHOE BAY UNIT OWNERS, WOODWARD-CLYDE	Aug.7-15	Temperature	CTD	?	2	Prudhoe Bay, Stump Island Lagoon		Chin et al. (1979)
			Salinity						
			Surface drift	Drogue					
			Current	?					
78-0036	U. ALASKA, HELICOPTER/ OCSEAP	Nov.11,1978-May 9,1979	Current	Aanderaa	?	3	Oliktok Point, Stefansson Sound		Matthews (1979, 1981b)
			Water level	Aanderaa					
78-0042	ICE ISLAND NP-24	Spring 1978-Nov.20,1980	?	?	?	2	?		Polar Record (1978)
78-0043	USCGC GLACIER, MIZPAC'78	July 14-28	Temperature	APL-UW portable	?,±.03C°	3	Point Barrow, Alaskan Shelf	Dissolved oxygen, CO_2, methane	Paquette and Bourke (1979)
			Salinity	CTD	?,±.02°/oo				
78-0044	ROSENSTIEL SCHOOL OF MAR. & ATM. SCI.,SUBMARINE PINTADO	Oct.10-19	Salinity	?	?,±0.02°/oo	3	Canada Basin, Alpha Ridge, Amundsen Basin	Tritium	Ostlund (1982)
78-0045	OCEANOGRAPHIC SERVICES INC. FOR GULF (BEAUMOP)	Summer	Water level	?	?	2	Prudhoe Bay area	Atm. pressure, winds	OSI (1979)
			Current						
78-0046	ALASKA DEPT. OF FISH & GAME?	June 28-Sept.22	Temperature?	?	?	2	Simpson Lagoon	Fish studies	Bendock? NODC F123/TR8217, 8218, 8219
			Salinity?						
78-0047	U. ALASKA	Apr.4-July 29	Temperature?	?	?	2	Simpson Lagoon, Alaskan Shelf	Nutrients, chl. a	Schell (pers. comm.)
			Salinity?						

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
78-0058A	NORTHWIND, OCSEAP	Aug.15-Sept.15	Temperature Salinity	Reversing thermometer Beckman RS-7A salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Alaskan Shelf	Plankton, (species and abundance), secchi	Horner (1981)
78-0059	U. ALASKA?, OCSEAP	Nov.8,1978-May 20,1979	Temperature? Salinity	?	?	3	Sefansson Sound	Secchi, chlorophyll a, nutrients, primary productivity, ice	Horner and Schrader (1982)
78-?	USSR AIRCRAFT SEVER-30	Spring Autumn	?	?	?	2	?		Polar Record (1978, 1979)
79-0002	USCG, CANMAR	Aug.9-Oct.18	Surface drift	Satellite-tracked drifters (RAMS)	±5 km position	3	Canada Basin/ Alaskan Slope		Murphy et al. (1981, 1983)
79-0040	U. WASHINGTON, OCSEAP	Feb.21,1979-Mar.6,1980	Current	Aanderaa RCM 4	[±1cm/s or 2% speed] [±.35, 7.5° dir.]	4	Alaskan Slope		Aagaard (1980) Aagaard (1981a) Darnall (1979)
79-0041	PRUDHOE BAY UNIT OWNERS, WOODWARD-CLYDE	Feb.20-Apr.30	Current Current profile Temperature Salinity	Endeco 105 Endeco 110 Martek Mark VII	accuracy-speed ±3% full scale ?,±0.1C° ?,±.07 mmho/cm	3	Prudhoe Bay (West Dock)	O_2, transmissivity, fish and plankton (species and abundance)	Mangarella et al. (1979)
79-0042	SOHIO/ NORTEC	Apr.6-Aug.30	Current Temperature Salinity	Aanderaa RCM 4 InterOcean CTD	[±1cm/s or 2% speed] [±.35, 7.5° dir.] ?,[±.05C°] ?,[±.05°/oo]	3	Prudhoe Bay	Dissolved O_2, transmissivity, Cd,Cr,Cu,Hg,Pb, Zn, sediment (chem. comp.)	North. Tech. Serv. (1981a)
79-0043	PRUDHOE BAY UNIT OWNERS, WOODWARD-CLYDE	July 20-Aug.31	Temperature Salinity Current Current profile	Martek Mark VII Endeco 105 Endeco 110	?,±0.1C° ?,±0.07 mmho/cm	3	Prudhoe Bay	Winds,plankton, transmissivity, diss. oxygen, fish larvae (species and abundance)	Chin (1980)
79-0044	U.S. GEOL. SUR.	Mar.1979, Aug.-Sept., 1979	Current drift	Seabed drifters	?	3	Stefansson Sound		Barnes and Reimnitz (1982)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
79-0045	U. ALASKA, HELICOPTER/ OCSEAP	Mar.29-May 24	Current Water level Drift	Aanderaa ? Woodhead drifters	?	3	Simpson Lagoon to Stefansson Sound		Matthews (1980) Lissauer & Matthews (1982)
79-0046	U. ALASKA/ OCSEAP	May 5-Nov.?	Current Water level	Aanderaa ?	?	3	Stefansson Sound		Matthews (1980)
79-0047	KINNETIC LAB./ OCSEAP	Aug.18	Drift	Buoys	?	3	Prudhoe Bay, Harrison Bay, Stockton Islands, Stefansson Sound		Wilson et al. (1981a)
79-0048	LGL/OCSEAP	Nov.2-13, 1979, Apr.29-May 6,1980	Temperature Salinity	?	?	2	Simpson Lagoon, Alaskan Shelf	Fish,benthos, invertebrates	Craig and Griffiths (1981a)
79-0049	USCG R&D CENTER	July 12	Drift	Woodhead drifters	?	3	Prudhoe Bay		Matthews (1981a)
79-0050	LOREX ICE STATION	Apr.6-May 20	Current Temperature Salinity	Aanderaa Reversing thermometer Salinometer	[±.02,.03C°] [±.01,.02°/oo]	3	Lomonosov Ridge, Makarov Basin	Silicate, phosphate, tritium,oxygen isotope	Aagaard (1981b) Moore et al. (1983)
79-0057	OCEANOGRAPHIC SERVICES INC.	Aug.12-Oct.8	Water level (and waves) Current	Sea Data Endeco 105 SeaTrak CM	?	3	Off Prudhoe Bay		OSI (1980b)
79-0058	BEAUHOP, EXXON	Summer	Current	?	?	2	Reindeer Island		Exxon (Proprietary)
79-0061	U. ALASKA/ OCSEAP	July 24-Aug.17	Temperature (Surface) Salinity (Surface)	? Beckman RC-19 cond. meter	? [±.01,.02°/oo]	3	Simpson Lagoon	Sediment	Naidu (1979)
79-?	USSR AIRCRAFT SEVER-31	Spring, Oct.-Dec.	?	?	?	2	?		Polar Record (1979, 1981)
80-0001	USCG,CANMAR	Nov.24,1980-Jan.16,1981	Surface drift	Satellite-tracked drifters (ARGOS)	±1.2 km	3	Alaskan Shelf, Canada Basin		Murphy et al. (1983)
80-0037	LGL, OCSEAP, D.W. HOOD	Aug.3-14	Temperature Salinity	YSI-33	?,±0.6C° ?,±1.1°/oo	3	Harrison Bay	Fish, invertebrates	Craig & Griffiths (1981a,b)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0038	U. ALASKA/ OCSEAP	Aug.-Sept. 1980 to July 1981?	Current Water level	?	?	2	Harrison Bay		Matthews (1981c)
80-0039	U. ALASKA, FLOAT PLANE/ OCSEAP	Aug.5-22	Temperature Salinity	? Beckman RC-19 conductivity bridge	? ?	3	Colville River Delta, Simpson Lagoon, Prudhoe Bay	Sediment (chem. comp., particle size distribu-, tion),pH, metal concentration, carbon,nitrogen	Naidu et al. (1981)
80-0040	KINNETIC LAB./ OCSEAP	Aug.20	Drift	Drogues	?	3	Harrison Bay		Wilson et al. (1981a)
80-0041	LGL/OCSEAP	July 22-26	Temperature Salinity	YSI-33	?,±0.6C° ?,±1.1°/oo	3	Prudhoe Bay, Simpson Lagoon	Invertebrates, turbidity	Craig and Griffiths (1981a)
80-0044	OCEANOGRAPHIC SERVICES INC., FOR SOHIO	Aug.22-Sept.23	Water level	Sea Data	±1.5 mm	3	Sagavanirktok River Delta		OSI (1980a)
80-0045	USSR AIRCRAFT SEVER-32	Feb.-May	?	?	?	2	?		Polar Record (1981)
80-0046	NATIONAL OCEAN SURVEY	Aug.1,1980-Sept.1,1981	Water level	?	?	3	Cross and Narwhal Islands		National Ocean Service #9497778, 9497901
80-0047	U. ALASKA/ OCSEAP	Mar.5-Nov.9	Salinity	?	?	2	Alaskan Shelf and Slope	Nitrate, phosphate, silicate,chl.a	Schell (in prep.)
80-0048	APL-U. WASH. ICE CAMP	Sept.18-Oct.5	Current profiles Temperature Salinity	Marsh-McBirney APL CTD	? ?	3	Alaskan Slope	pH	Garrison et al. (1982)
80-0049	POLAR SEA, SAI	Sept.12-Oct.8	Temperature Salinity	?	?	2	Alaskan Shelf and Slope, Canada Basin		J. Newton, SAI
80-0050	OCEANOGRAPHIC SERVICES INC.	Aug.-Nov.	Water level Current	?	?	2	Alaskan Shelf	Wind, atm. pressure, air temperature	OSI (1981b)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
80-0054	U. ALASKA/ OCSEAP	Apr.10- June 11	Temperature? Salinity	? Salinity bridge	?	3	Stefansson Sound	Secchi, chlorophyll a, nutrients, primary productivity	Horner and Schrader (1982)
81-0033	PRUDHOE BAY UNIT OWNERS, WOODWARD-CLYDE CONSULTANTS	July 30- Sept.15	Temperature Salinity Current Surface drift Water level	Martek VIII Data Logger Aanderaa RCM-4 Drogue Sea Data 635-11	?,±.1C° ?,±0.2°/oo ±1 mm	3 1 3 3	Prudhoe Bay, Cross Island	Transmissivity waves, winds	Mangarella et al. (1982)
81-0035	RV D.W. HOOD, OCSEAP	Aug.3- Sept.10	Temperature Salinity Current	InterOcean CTD 513D Aanderaa, Marsh McBirney EM, General Oceanics	[,±.05C°] [±.05°/oo] ?	3	Northeast Chukchi Sea, Point Barrow		Wilson et al. (1981b,1982)
81-0036	LGL, ARMY CORPS OF ENGINEERS	July 3- Sept.13	Temperature Salinity	YSI-33	?,±.1C° ?,±1.0°/oo	3	Prudhoe Bay	Turbidity, fish	Griffiths and Gallaway (1982)
81-0037	USCG/ FROZEN SEA RESEARCH	Apr.4- Aug.2	Current Temperature Salinity	AMF Vector-Averaging Guildline CTD	? ±.001,.005C° ±.003,.005°/oo	3 4	Alaskan Slope and Shelf		Greisman & Blaskovich(1984) Melling (pers. comm.) Rabe (1982) MEDS cruise 015-81-020
81-0038	USCG, CANMAR	Oct.27- Nov.4	Surface drift	Satellite-tracked drifter (ARGOS)	±1.2 km	3	Alaskan Slope		Murphy et al. (1983)
81-0040	USSR AIRCRAFT SEVER-33	Spring	?	?	?	2	?		Polar Record (1982)
81-0041	ROSENSTIEL SCHOOL OF MAR. & ATM. SCI./SUBMARINE	?	Salinity	?	?	2	?	Tritium	Ostlund (pers. comm.)
81-0042	OCEANOGRAPHIC SERVICES INC.	Aug.16,1981- Feb.6,1982	Water level Temperature Current	?	?	2	Harrison Bay, Pingok Island	Air pressure, temperature, winds	OSI (1982)
81-0044	NATIONAL OCEAN SURVEY	Feb.1- Sept.28	Water level	?	?	2	Dinkum Sands (Stefansson Sound)		National Ocean Service #9497861, 9497147

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
81-0045	U. ALASKA/ OCSEAP	Apr.12-14	Salinity	?	?	2	Alaskan Shelf	Nutrients	Schell (in prep.)
81-0046	HARDING LAWSON FOR EXXON	March-Aug.29	Salinity Current	? SeaTrack	? ?	2	Alaskan Shelf	Sediment, benthos	Toimil and England (1982)
81-0047	NORTEC FOR ARCO	August	Temperature Salinity	?	?	2	Prudhoe Bay	Benthos, sediment	Nortec (1982)
81-0048	OCEANOGRAPHER, U. WASHINGTON	Sept.7,1981-Sept.14,1982	Temperature Salinity Current Water level	? Aanderaa Aanderaa	?	2	Northeast Chukchi Sea		Tripp (pers. comm.)
81-0049	OCEANOGRAPHIC SERVICES INC. FOR SOHIO	Aug.19-Nov.1	Water level Temperature	Sea Data Pressure gauge Thermistor	?,±1.5 mm ?,0.07C°	3	Sag Delta		OSI (1981a)
81-0051	WOODWARD-CLYDE CONSULTANTS	Aug.2-Sept.3	Temperature Salinity Current Water level	Martec VII Datalogger Endeco Stevens	?,±.1C° ?,±.1 mmho/cm ?,±5 cm/s,2° ?,±3 mm	3	Oliktok Point	Transmissivity, meteorological, biological	Colonell and Weingartner (1982a)
81-0052	WOODWARD-CLYDE CONSULTANTS	Aug.15-Sept.3	Temperature Salinity Current Water level Waves Drift	Martec VIII Datalogger Aanderaa Sea Data 635-11 Drogues	?,±.1C° ?,±.1 mmho/cm ±2% speed, ±2° ?,±3 mm	3	Sag R. Delta	Transmissivity, meteorological, biological	Colonell and Weingartner (1982b)
81-?	SOVIET ICE STATION NP-25	Apr.1981-	?	?	?	2	?		Polar Record (1982)
82-0012	NORTEC FOR SOHIO	July 29-Sept.22	Temperature Salinity Current Water level	InterOcean CTD Neil Brown ACM-2 Sea Data 635-11	?,[±0.05C°] ?,[±0.05°/oo] ?,[±1 cm/s] ?	3	Sag Delta	Turbidity	Britch et al. (1983)
82-0013	LGL FOR SOHIO	July 4-Sept.11	Temperature Salinity	Thermometer YSI-33	?,±.5C° ?,±1.0°/oo	3	Sag Delta	Turbidity, fish, invertebrates	Griffiths et al. (1983)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0014	M.V. HOOD SAI, OCSEAP	July 21-Sept.11	Drift	Surface and seabed drifters	?	3	Eastern Alaskan Shelf, Lagoons	Nutrients, fish, birds	Hachmeister and Vinelli (1983)
			Current	Aanderaa, Neil Brown		1			
			Water level	Aanderaa pressure gauge		3			
82-0015	SAI, OCSEAP, ZODIACS	Sept.7-15	Temperature Salinity	CTD	? ?	3	Eastern Alaskan Lagoons		Hachmeister and Vinelli (1983)
82-0016	U. ALASKA/ OCSEAP	July 24-Aug.7	Temperature Salinity	? ?	? ?	2	Eastern Alaskan Lagoons	Nutrients, transmissivity, chl. a, biota	Schell (1983)
82-0017	LGL/ OCSEAP	July 25-Aug.5	Temperature Salinity	Thermometer YSI-33	?,±0.5C° ?,±1.0°/oo	3	Eastern Alaskan Lagoons	Fish	Griffiths (1983)
82-0026	U. ALASKA, OCSEAP, HELICOPTER	May-June	?	?	?	2	Prudhoe Bay, Harrison Bay		Schell (pers.comm.)
82-0027	OCEANOGRAPHIC SERVICES INC.	Summer	Water level Current	?	?	2	Harrison Bay, Pingok Island	Wind, atm. pressure, air temperature	OSI (1983)
82-0030	NORTEC FOR ARCO	April	Temperature Salinity	?	?	3	Prudhoe Bay	Benthos (species and abundance), sediment (CO_3, TOC)	Nortec (1982)
82-0031	NORTEC FOR ARCO	August	Temperature Salinity	YSI	[?,±.1C°] [?,±.3°/oo]	3	Prudhoe Bay	Benthos, sediment	Nortec (1983b)
82-0032	KINNETIC LAB FOR EXXON	?	?	?	?	2	Flaxman Island		Proprietary
82-0033	NORTEC FOR SHELL	July 31-Sept.17	Current Temperature Salinity	Endeco 105 InterOcean CSTD	? ?,±.05C° ?,±.05°/oo	3	Tern Island, Stefansson Sound	Turbidity	Nortec (1983a)
82-0041	U. WASHINGTON, HELICOPTER	Feb.14-Mar.14	Temperature Salinity	Neil Brown CTD	?	3	Northeast Chukchi Sea		Tripp (pers. comm.)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
82-0042	DISCOVERER, U. WASHINGTON	Aug.12-Sept.4	Temperature Salinity	Plessey CTD	?	3	Northeast Chukchi Sea		Tripp (pers. comm.)
82-0043	KINNETIC LAB. FOR U.S. ARMY	July 24-Sept.15	Temperature Salinity Current	Beckman RS5 Aanderaa, Endeco	?,.05C° ?,.05°/oo ?	3	Prudhoe Bay		Savoie and Wilson (1983)
82-0047	WOODWARD-CLYDE CONSULTANTS	July 27-Sept.14	Temperature Salinity Current Current Water level Waves	Neil Brown CTD Aanderaa Neil Brown Sea Data 635-11	?,±0.05C° ?,±0.01°/oo ±2% speed,±2° ±5% speed,±5° ?,±3 mm	3	Oliktok Point	Transmissivity, meteorological, biological	Colonell and Weingartner (1983)
82-0048	WOODWARD-CLYDE FOR U.S. ARMY	June 29-Sept.30	Temperature Salinity (Surface) Drift	Beckman or YSI Drogue	?	3	Prudhoe Bay	Fish, wind, waves	Critchlow (1983)
82-0050	USCG, CANMAR	Sept.9-1982-Jan.28,1983	Drift	Satellite-tracked drifters	?	3	Alaskan Slope, Beaufort Sea		Melling (pers. comm.)
82-?	USSR AIRCRAFT SEVER-34	?	?	?	?	2			
83-0004A	CESAR, FROZEN SEA RES. GROUP	Apr.1-May 11	Temperature Salinity	Guildline 8706 CTD	[±.003,.003C°] [±.005,.01°/oo]	4	Alpha Ridge, Queen Elizabeth Islands Shelf	NO_3, PO_4, SiO_3	Perkin (pers. comm.)
83-0004B	CESAR, U. WASHINGTON	Apr.5-May 13	Current	Aanderaa	?	3	Alpha Ridge		Tripp (pers. comm.)
83-0005	ARCTIC SCIENCES LTD., AIRCRAFT SURVEY FOR IOS	Mar.26-27	Temperature Salinity	Guildline CTD	[±.001,.01C°] [±.001,.01°/oo]	4	Off Queen Elizabeth Islands	NO_3, PO_4, SiO_3	Fissel et al. (1984)
83-0006	DISCOVERER, SAI	Aug.10-Sept.	Temperature Salinity Drift Current	? Drifters Neil Brown ACM2, Aanderaa RCM4	?	2	Northeast Chukchi Sea		Hachmeister (1983,in prep.)
83-0007	EG&G ENVIRONMENTAL CONSULTANTS	?	?	?	?	2	Peard Bay		Contact Galhem (EG&G)

TABLE 1: SUMMARY LISTING OF DATA SETS (Cont'd)

Data Set I.D.	Ship or collecting agency	Dates of measurements	Quantity measured	Instruments or methods used ?=Unknown	Estimate of data precision and accuracy	Data rating number	Area	Concurrent measurements	Source or reference
83-0011	SAI, SURVEYOR	Sept.22,23	Temperature Salinity	?	?	3	Northeast Chukchi Sea		Vinelli (1983)
83-0012	HARDING LAWSON FOR EXXON	Feb.19-26	Salinity	Salinometer	[±.01,.02°/oo]	3	Alaskan Shelf	Nutrients, sediment (chem. comp.), trace metals	Toimil and England (1983)
83-0013	NORTEC FOR ARCO	April	Temperature Salinity	Hydrolab 4041	? [±.01,.02°/oo]	3	Prudhoe Bay	Benthos (species and abundance), CO_3, TOC	Nortec (1983b)
83-0018	OCEANOGRAPHIC SERVICES INC.	?	?	?	?	2	?		
83-0019	NORTEC	Fall-to be recovered	Current	?	?	2	Harrison Bay		Britch (pers. comm.)
83-0020	WOODWARD-CLYDE CONSULTANTS	Aug.6-Sept.21	Temperature Salinity Current Water level Waves	Neil Brown CTD Neil Brown Anderaa Sea Data 635-11	?,±.05C° ?,±.01°/oo ±5% speed,±5° ±2% speed,±2° ?,±3 mm	3	Prudhoe Bay	Transmissivity, meteorological, biological	Colonell and Berry (1983)
83-0022	NORTEC FOR ARCO	Aug.26-Sept.18	Temperature Salinity	?	?	3	Prudhoe Bay	Benthos, sediment	Nortec (1984)
83-0032	USCG, CANMAR	Aug.17-Oct.28	Drift	Satellite-tracked-drifters	?	3	Alaskan Shelf and Slope, Beaufort Sea		Melling (pers. comm.)
83-0033	KINNETIC LAB. FOR U.S. ARMY CORPS OF ENG.	July 22-Sept.15	Temperature Salinity Currents	Beckman RS5-3 Salinometer Aanderaa RCM-4	?,±.05C° ?,±.05°/oo	3	Prudhoe Bay		Savoie and Wilson (1984)
83-?	USSR AIRCRAFT SURVEY, SEVER-35	Spring	?	?	?	2	?		

9. MAPS

This section contains maps showing the yearly distribution of temperature, salinity, current, water level, and surface drift measurements. Up to eight base maps are used, as shown in on the following page. All maps are Polar Stereographic Projection with the following scales:

Map No.	1	2	3	4	5	6	7	8
N, Scale=1:N million	12	7.5	7.5	3.2	1.7	1.7	.175	.175

Temperature-salinity and water level data are plotted together if no current meter data existed in that year. If current meter data were collected in that year, then the first map(s) will show only temperature and salinity data, and a second map will show the current meter data, as well as any water level or drifter data. The areas of Lagrangian drifter data are indicated by hatching on the first map.

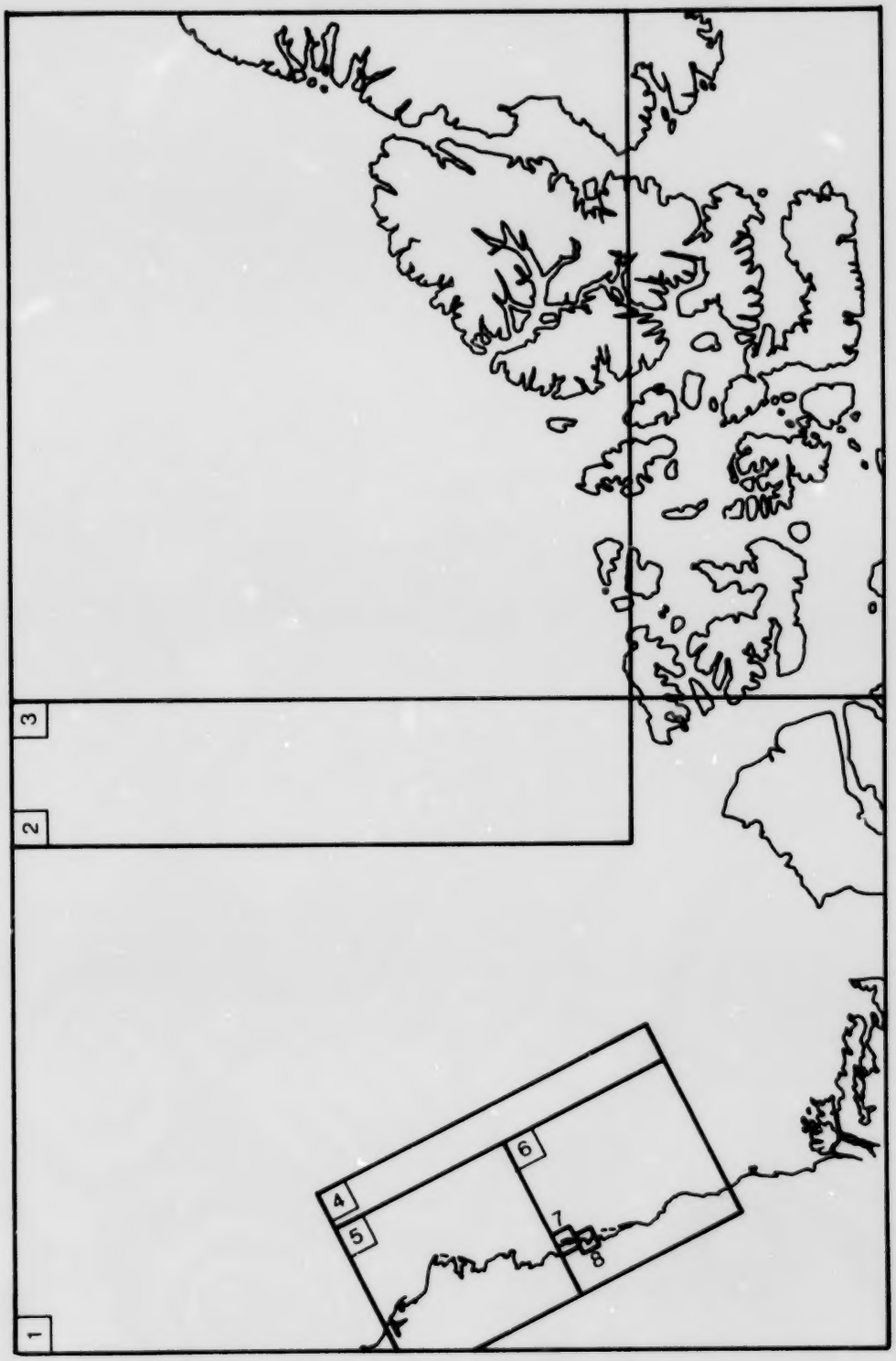
Often the actual station locations for the Soviet drifting ice stations are unknown. In such cases, the ice station trajectories have been drawn on the appropriate maps. The entire ice station drift is shown on each year's maps, for all the years encompassed by the drift. This was necessary since the yearly breakdown of ice station drifts was usually not known.

For some data sets, exact locations are not known. A "?" on the first map is used to incidate the general area, if known.

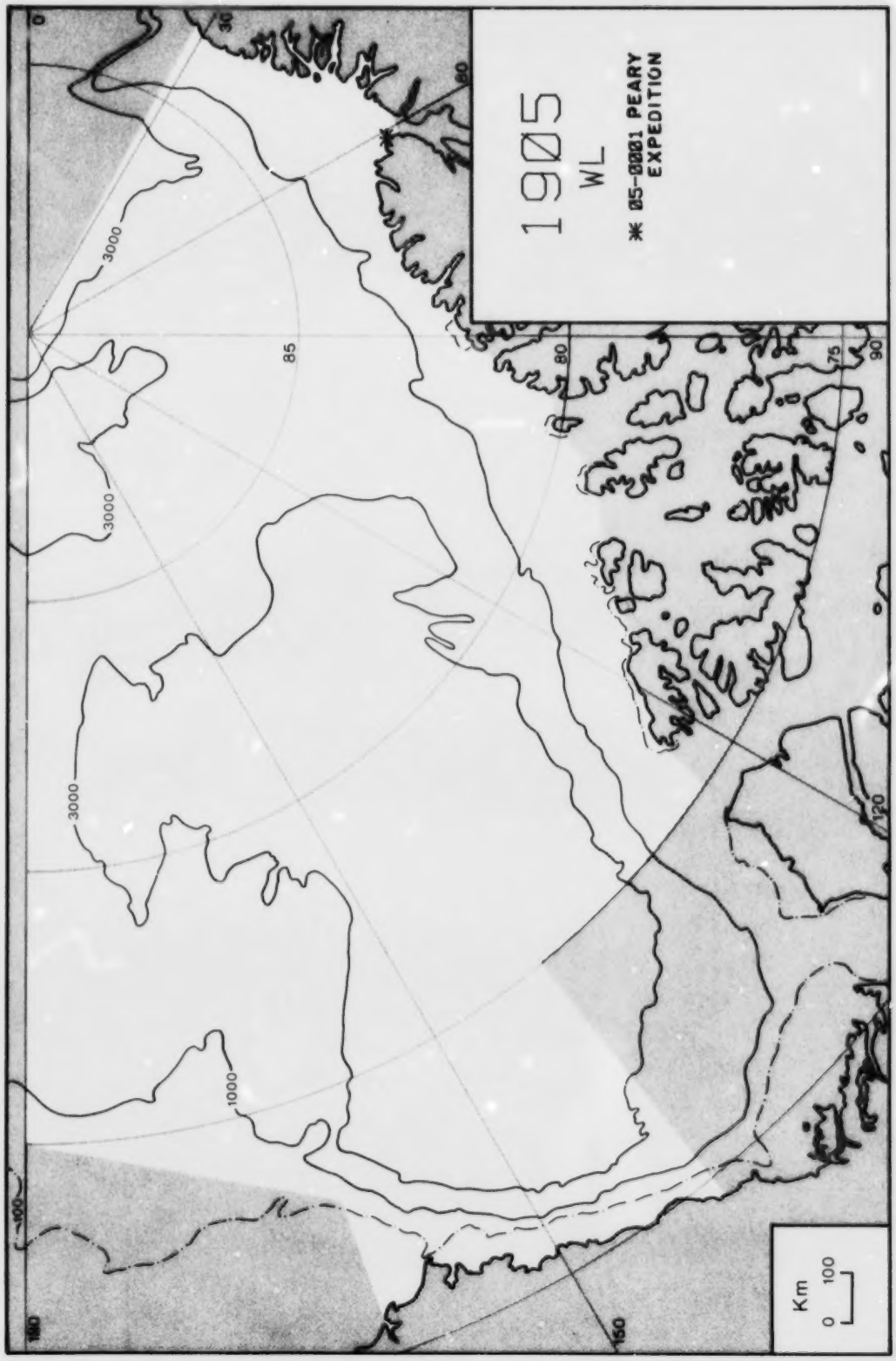
The legend indicates the following data types:

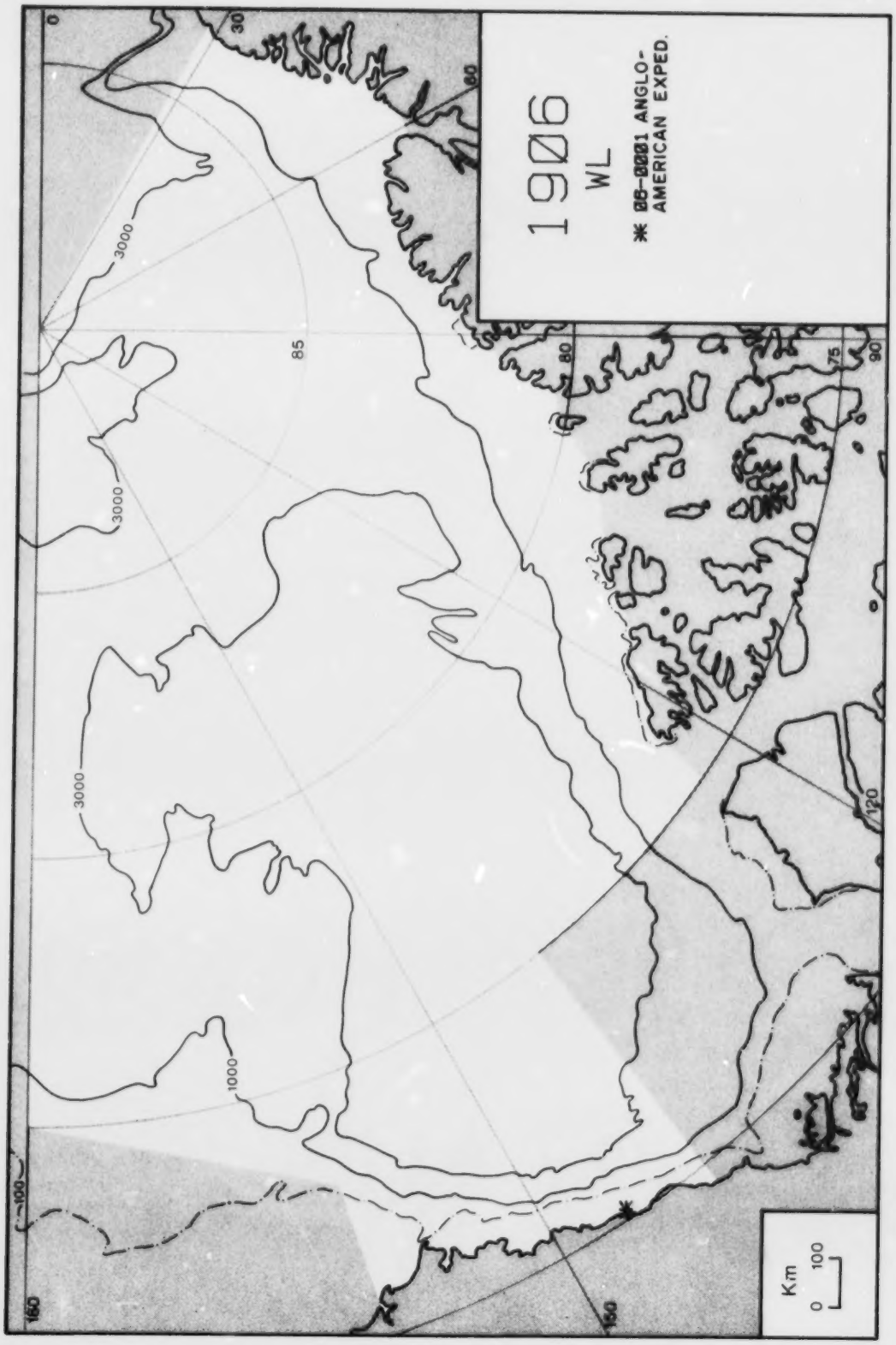
CM - current meter data
DRF - drifter data
TS - temperature-salinity data
WL - water level data

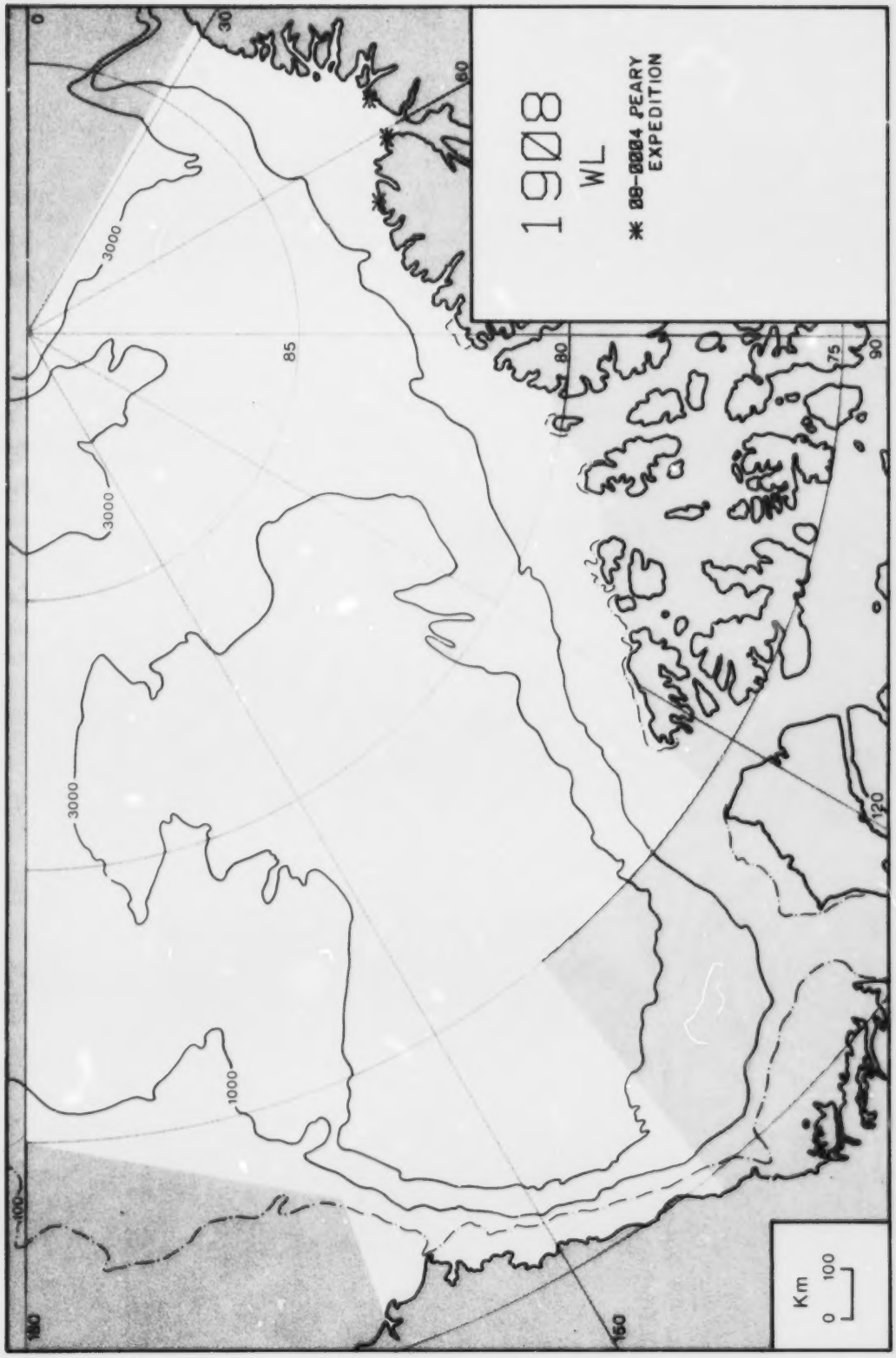
The coastlines have been smoothed and small islands removed. A minimum displacement of .03 m is required for a new station to be plotted. This was implemented to prevent the plotter from wearing through the paper in heavily sampled locations. Vessel/agencies in the legend are abbreviations. Note that cruise station symbols may be different on two different maps. Depth contours are in metres.

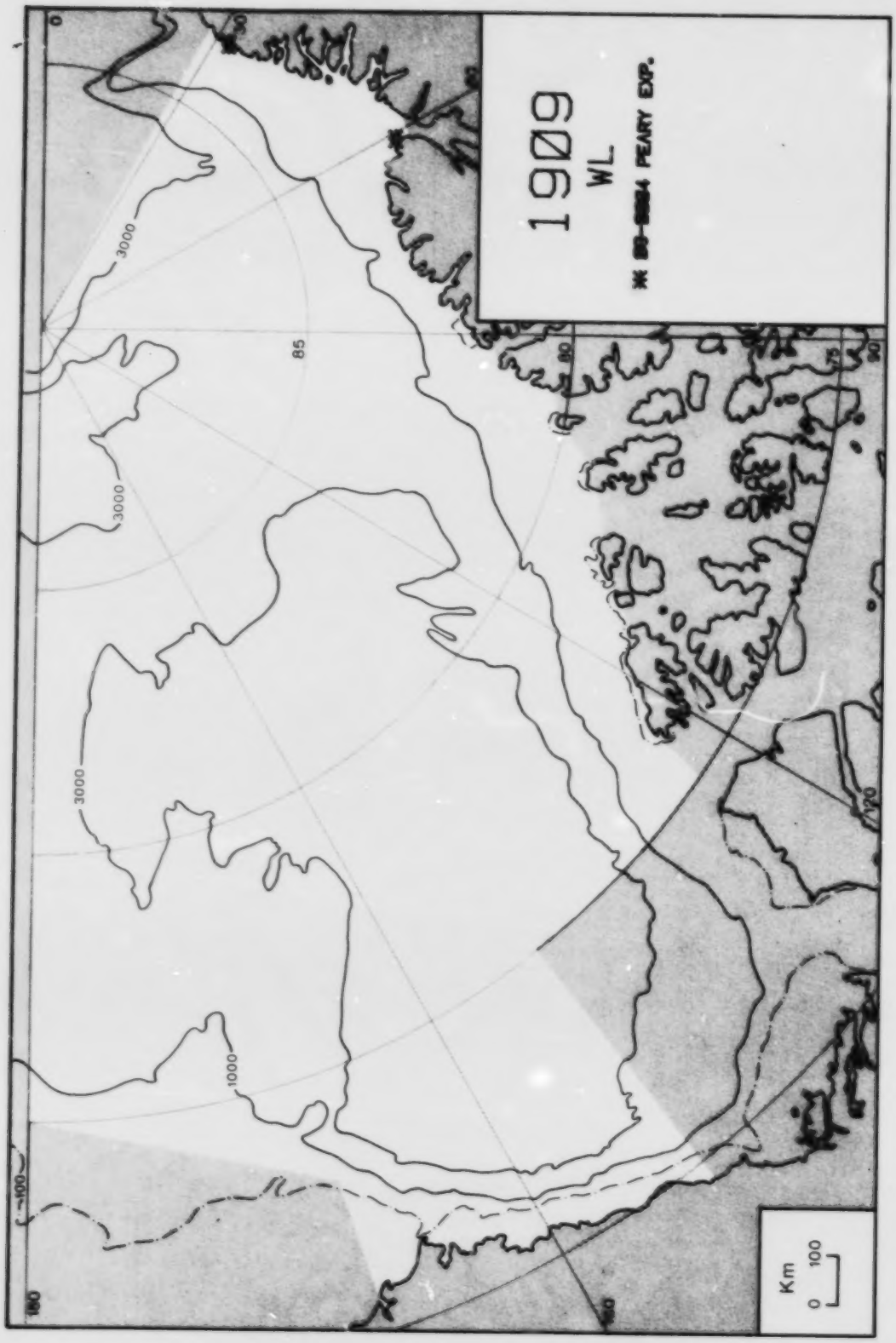

1
2
3
4
5
6
7
8

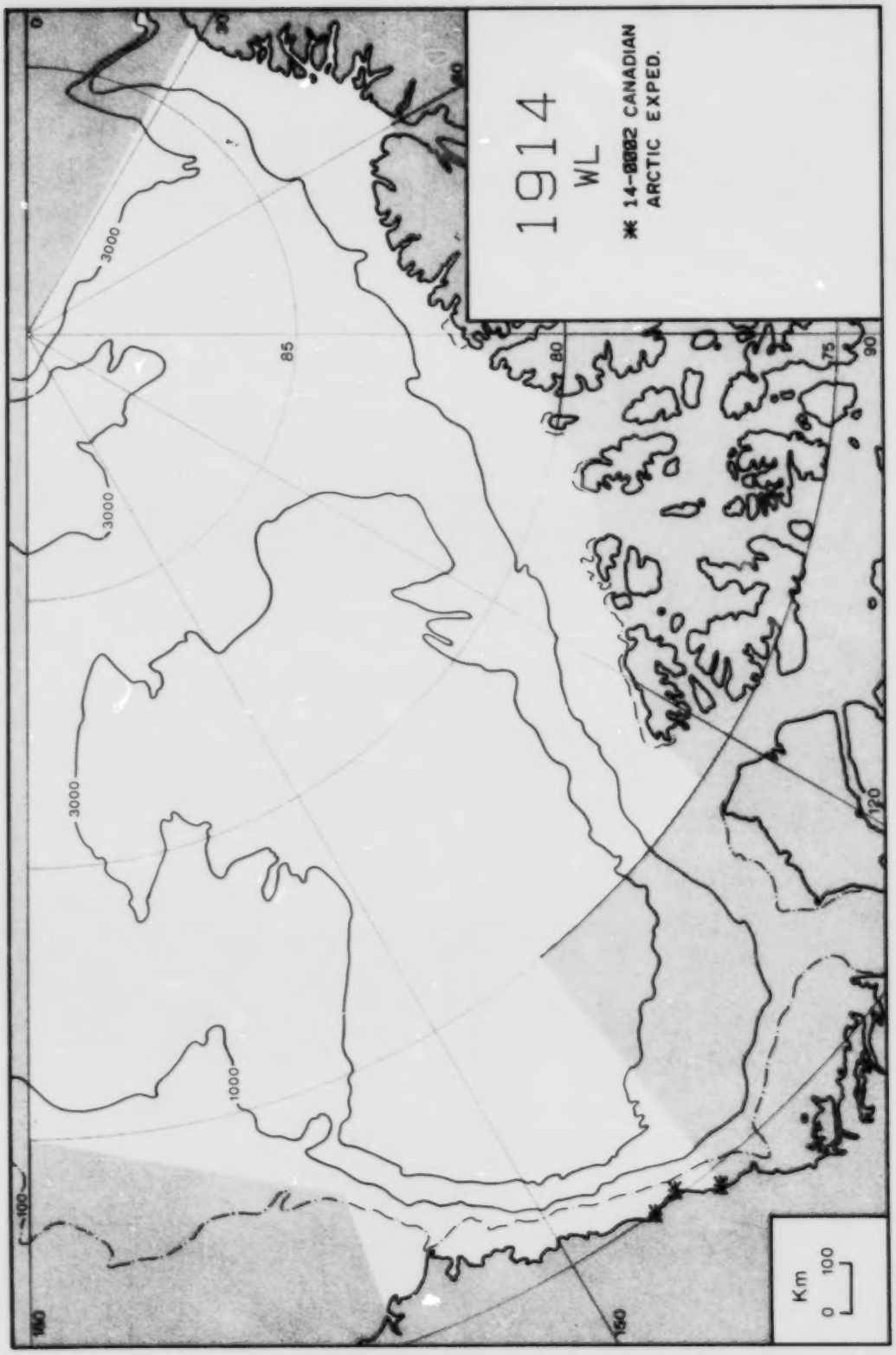
1883
WL
* 1883-1 INT'L
POLAR EXPED.
Km
0 100
3000
3000
3000
1000
100
85
80
75
90
120
160
180
0
30
60

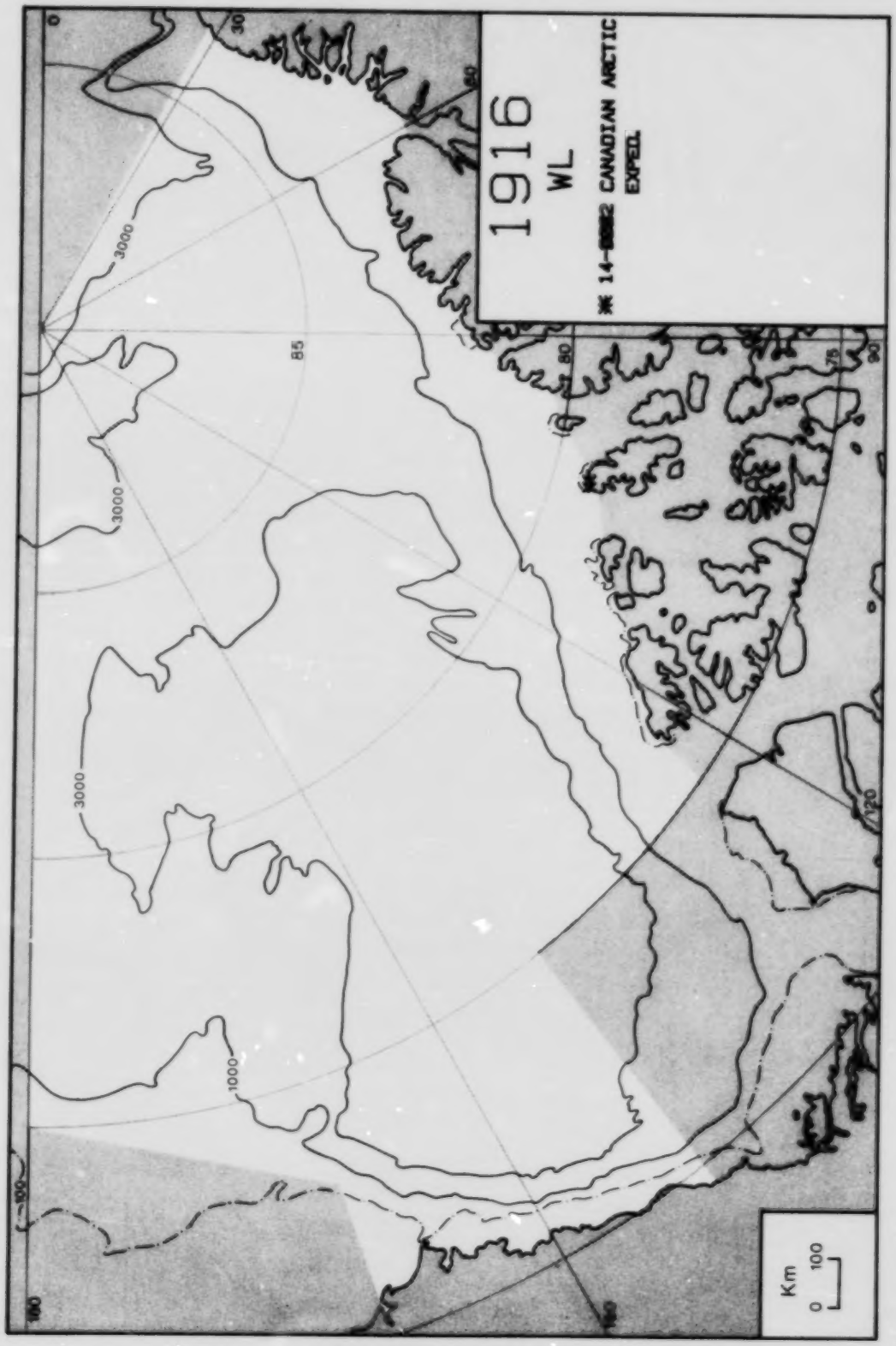

1905
WL
* 05-0001 PEARY
EXPEDITION
3000
3000
3000
1000
85
80
75
90
120
150
180
0
30
60
100
Km
0
100

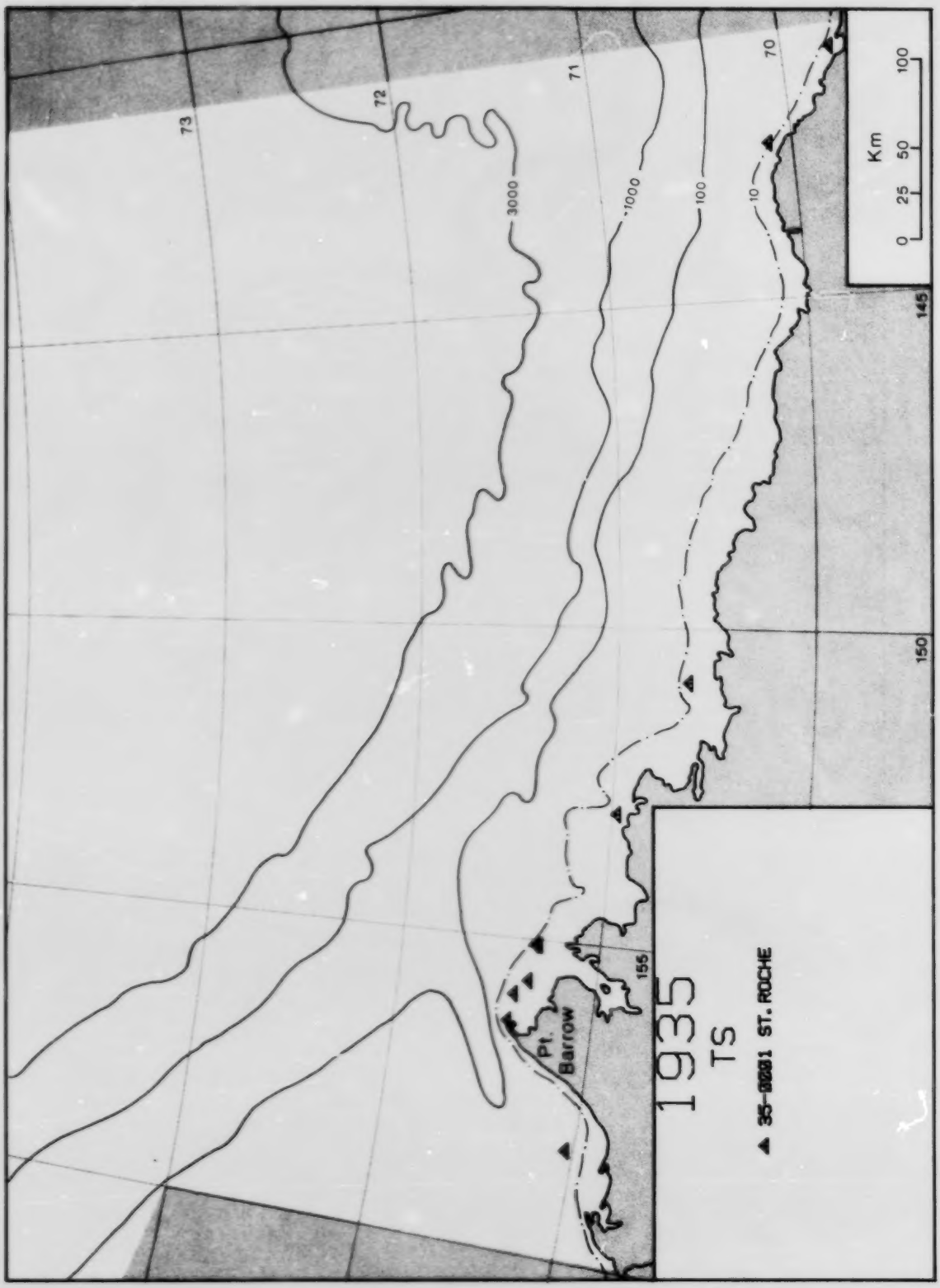

1906
WL
* 06-0001 ANGLO-
AMERICAN EXPED.
0
30
60
85
80
75
90
120
150
160
-100
3000
3000
3000
1000
Km
0 100

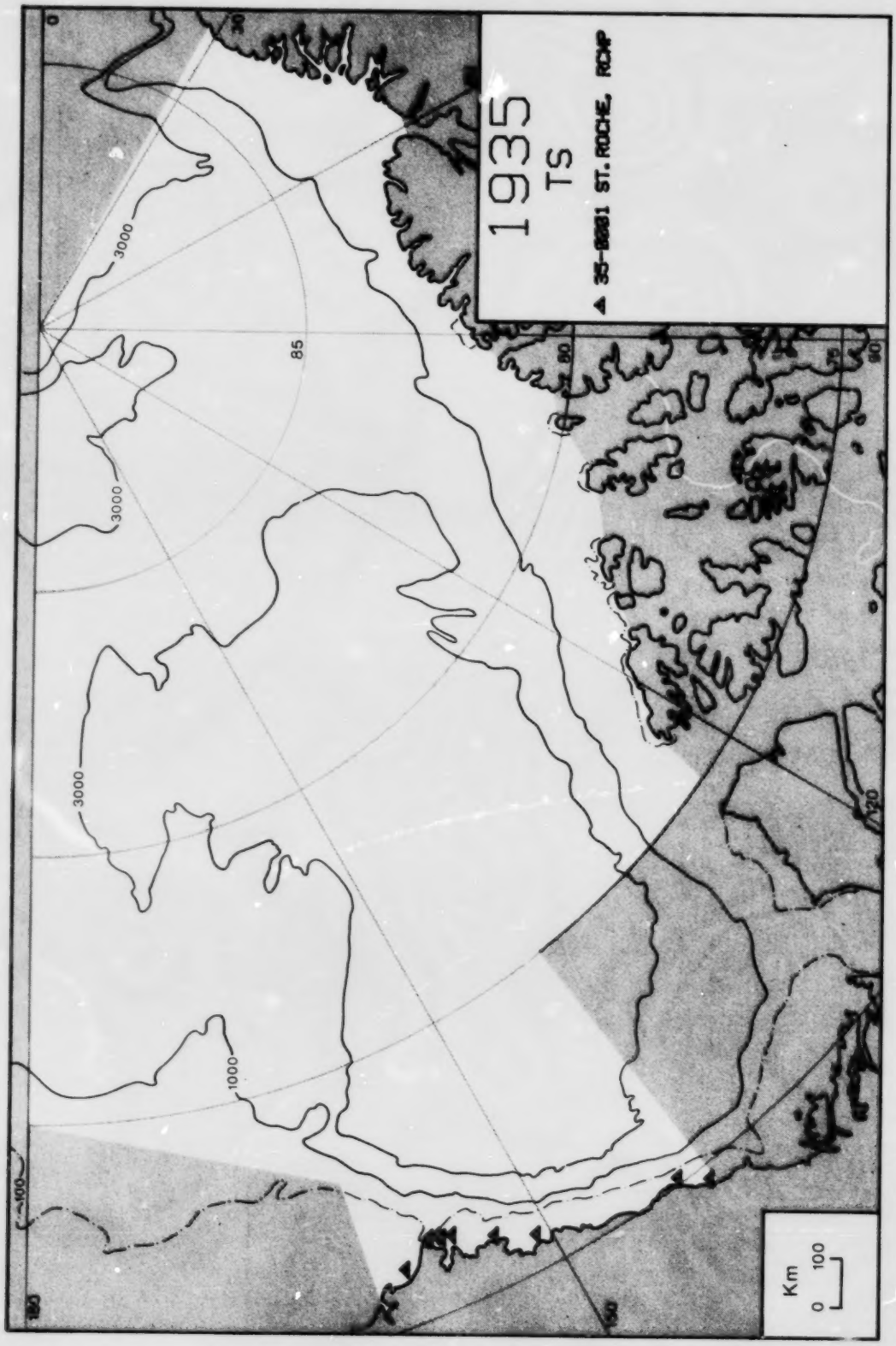

1908
WL
* 08-0004 PEARY
EXPEDITION
3000
3000
3000
1000
85
80
75
90
120
160
180
100
0
30
60
Km
0
100

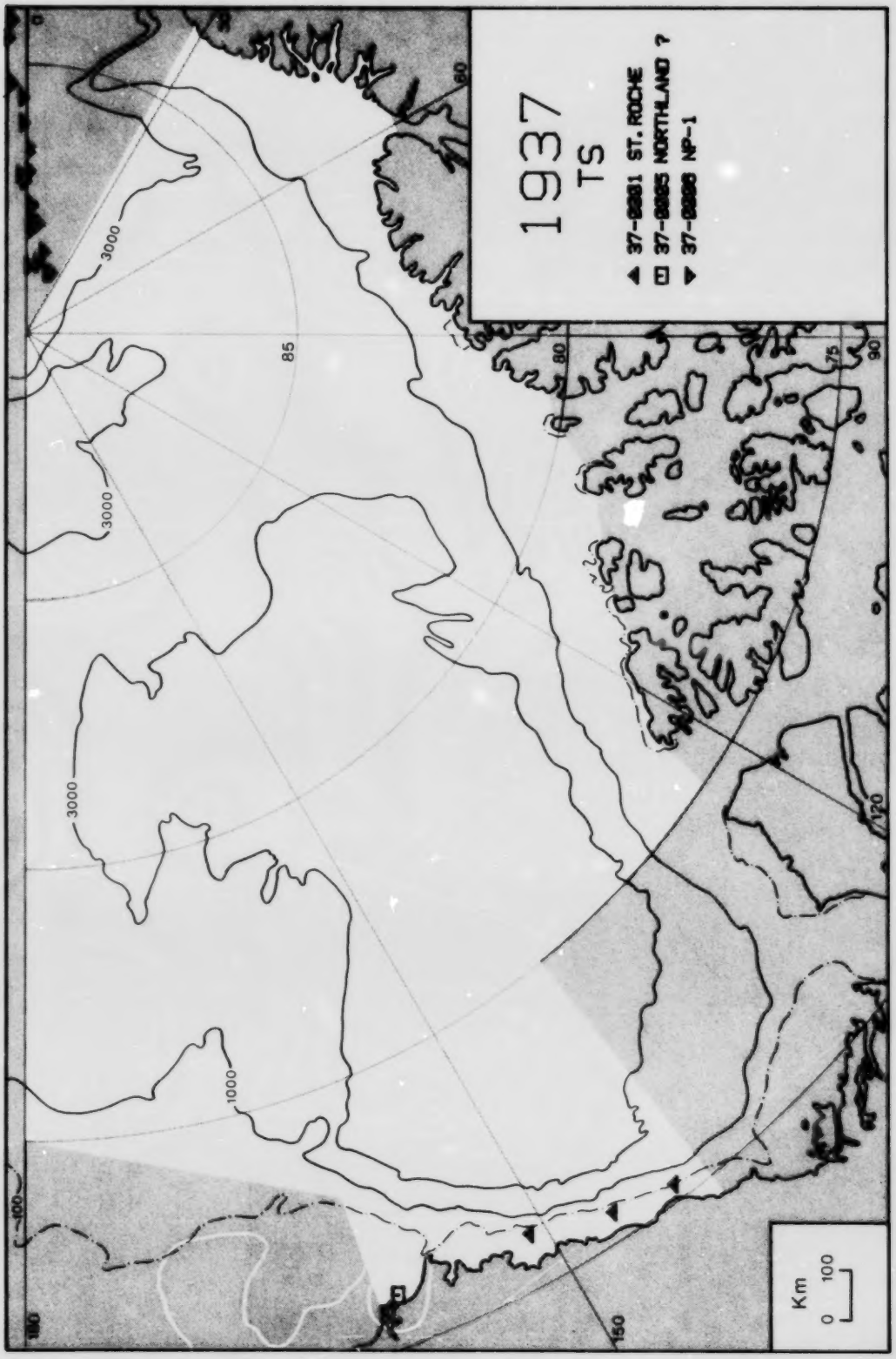

1909
WL
PEARY EXP.
3000
3000
3000
1000
85
80
75
90
120
180
Km
0
100

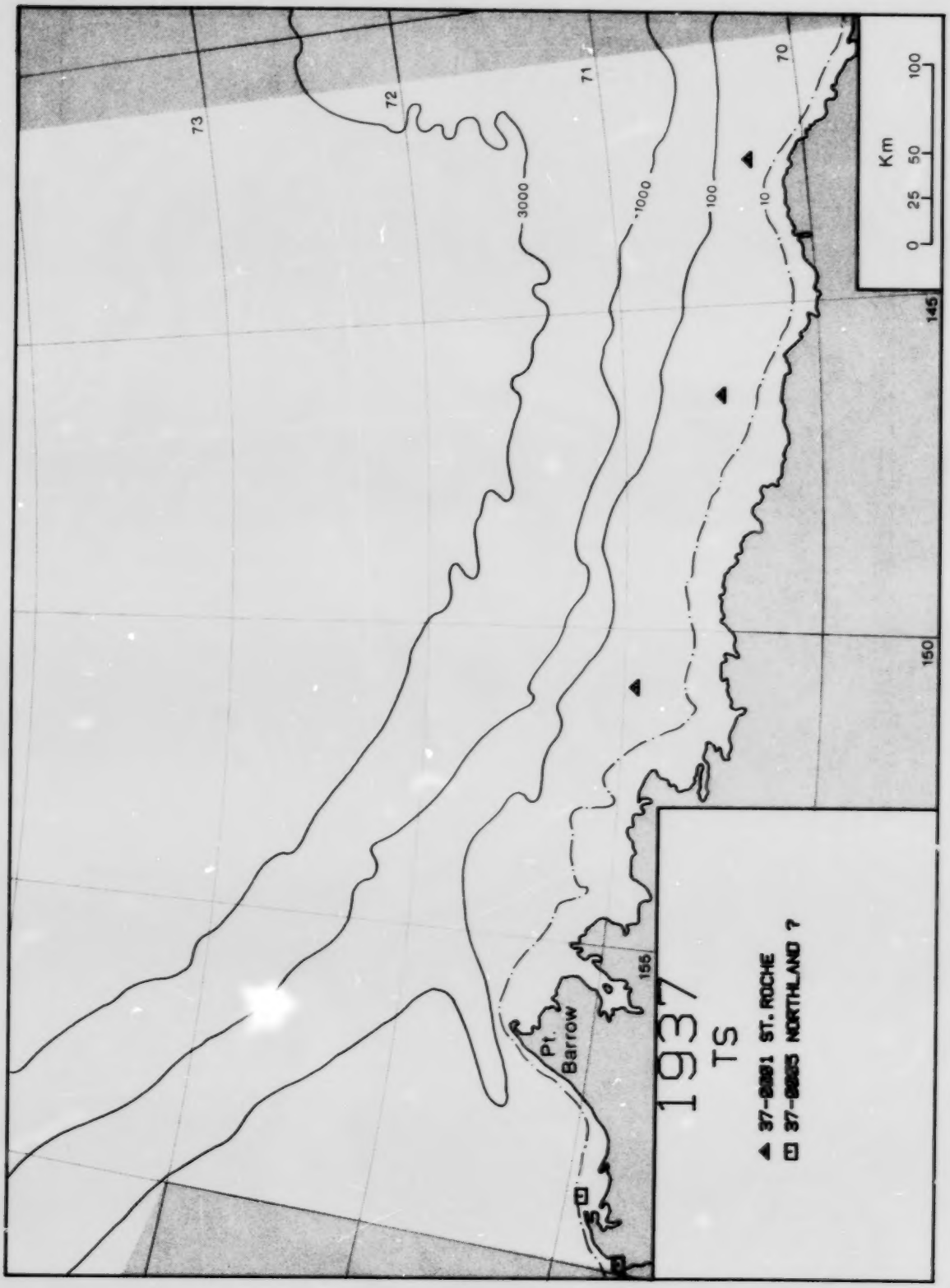

1914
WL
14-0002 CANADIAN
ARCTIC EXPED.
3000
3000
3000
1000
85
80
75
90
120
150
100
Km
0
100

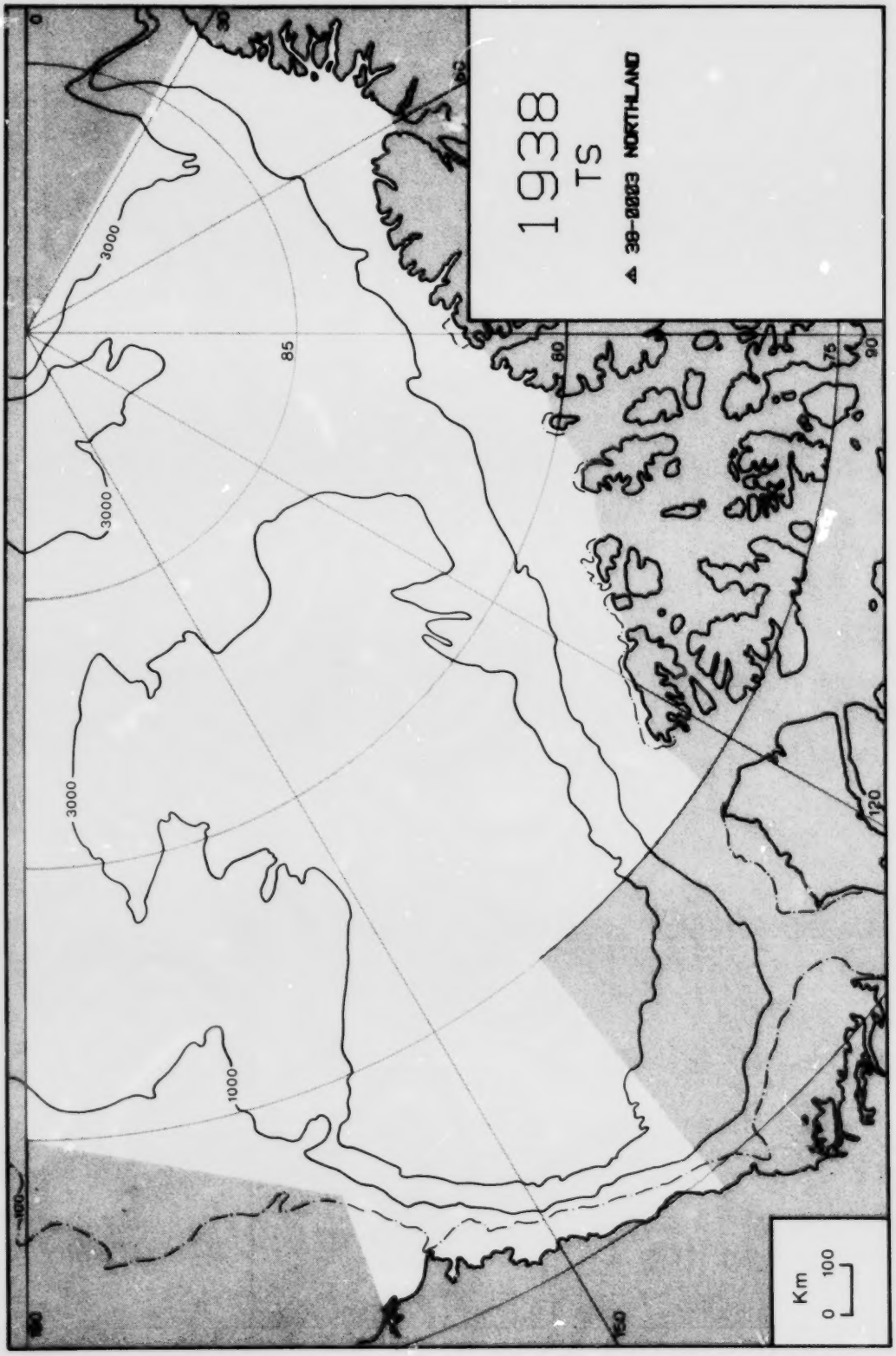

1916
WL
CANADIAN ARCTIC
EXPED.
3000
3000
3000
1000
85
80
75
90
120
Km
0
100

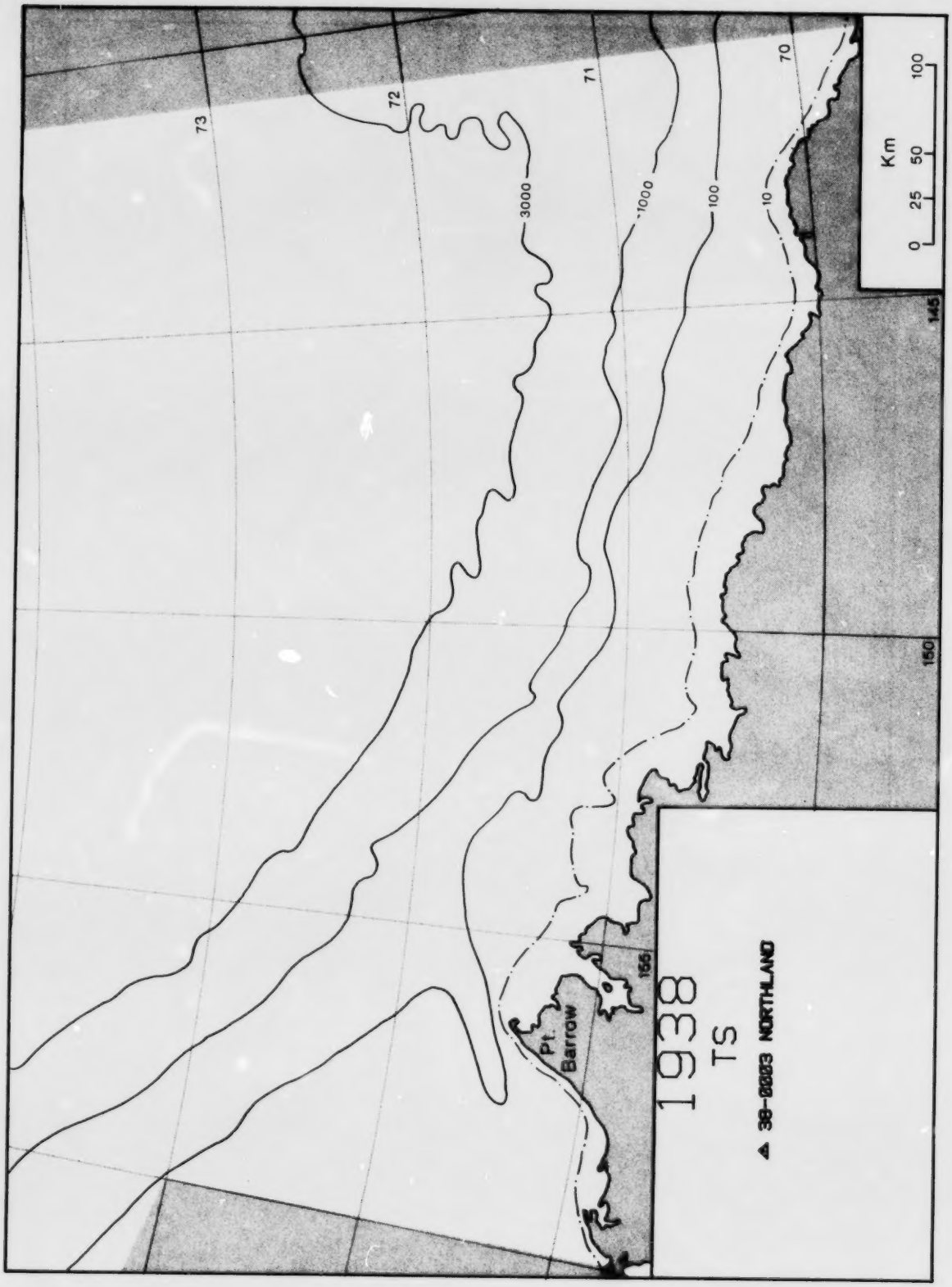

73
72
71
70
3000
1000
100
10
Pt.
Barrow
155
150
145
Km
0
25
50
100
1935
TS
35-0081 ST. ROCHE

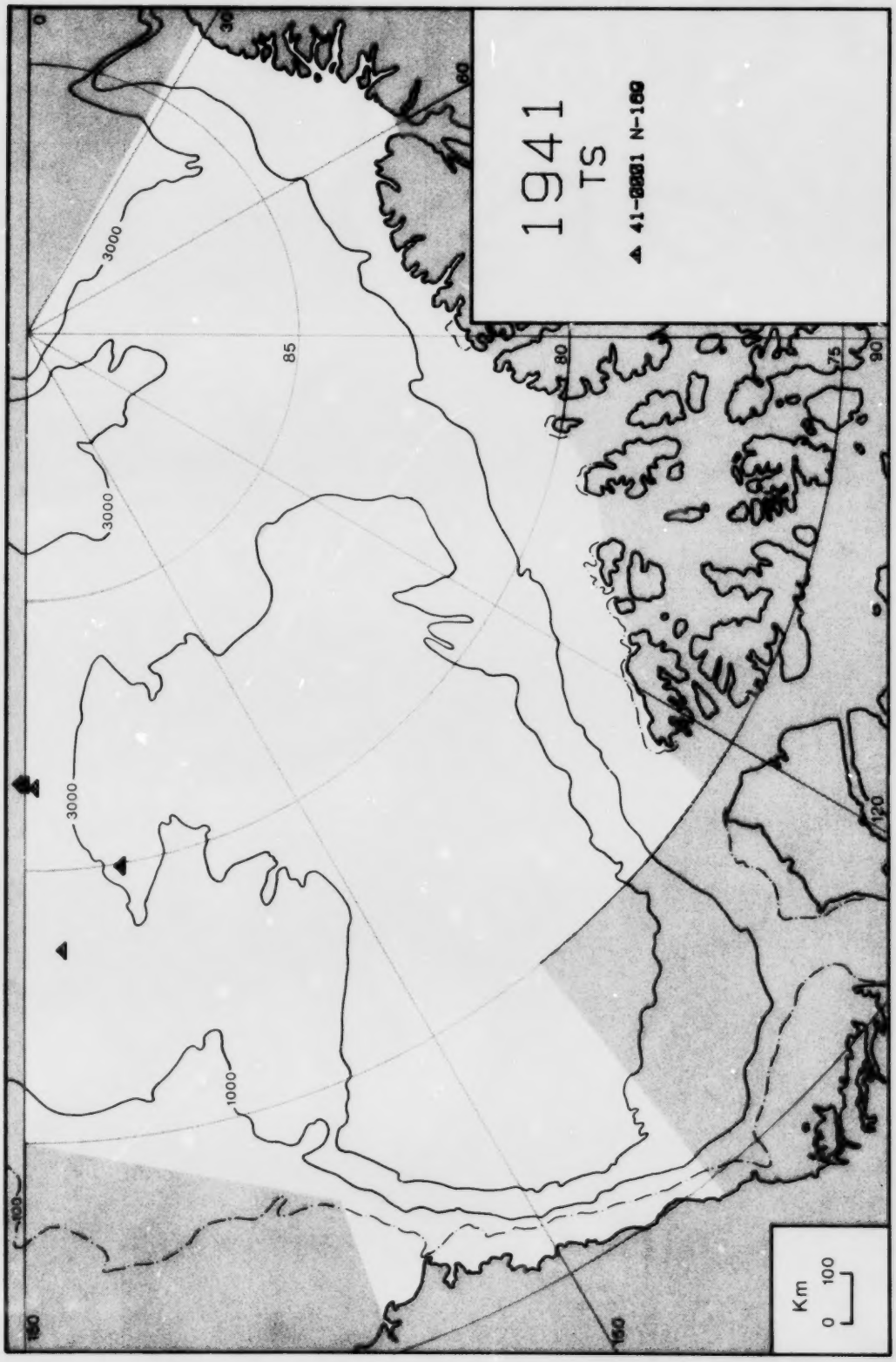

1935
TS
▲ 35-0001 ST. ROCHE, RCMP
3000
3000
3000
1000
85
Km
0
100

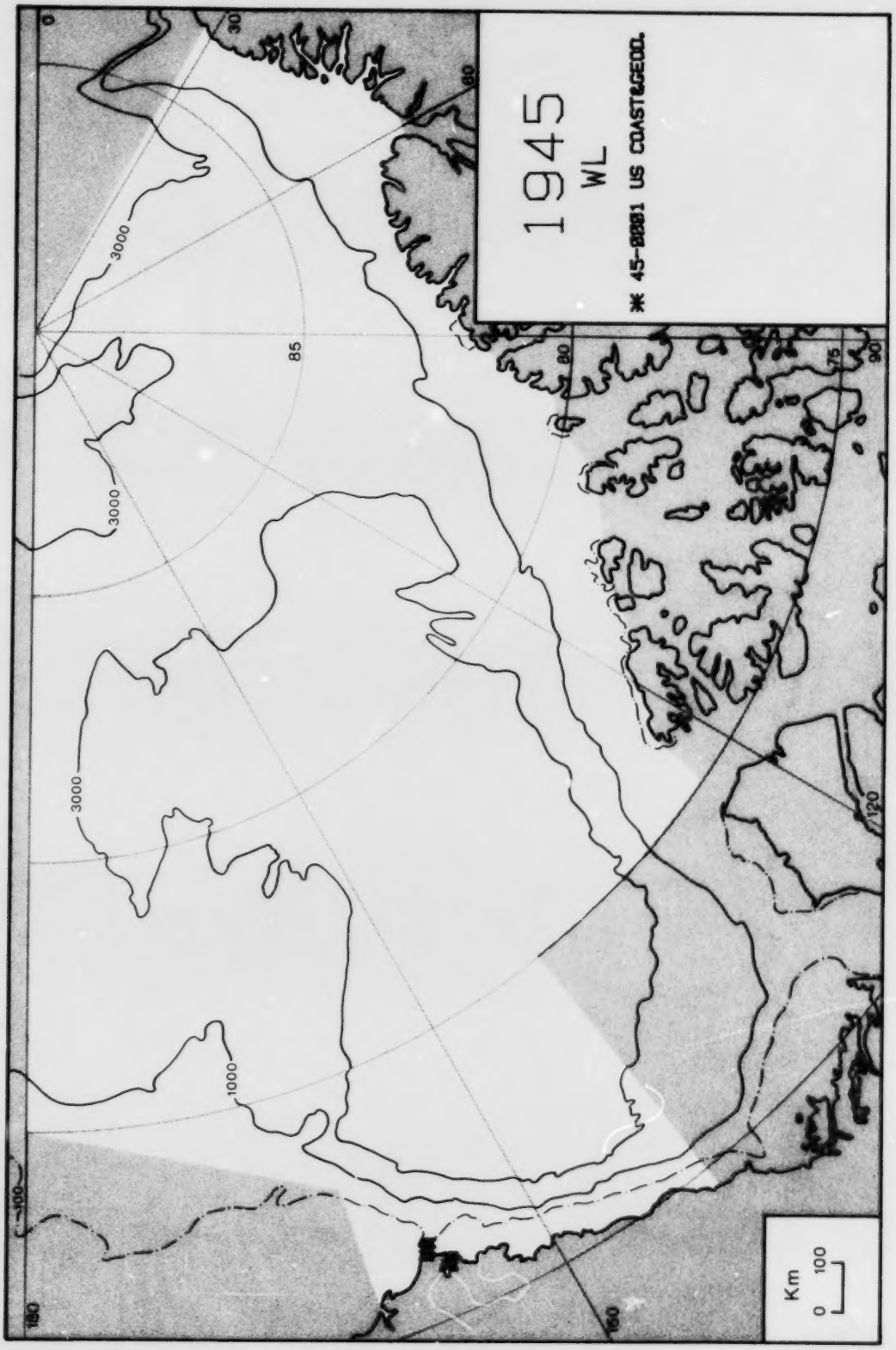

1937
TS
37-0001 ST. ROCHE
37-0005 NORTHLAND ?
37-0006 NP-1
3000
3000
3000
1000
85
80
80
75
90
120
150
180
100
0
Km
0 100

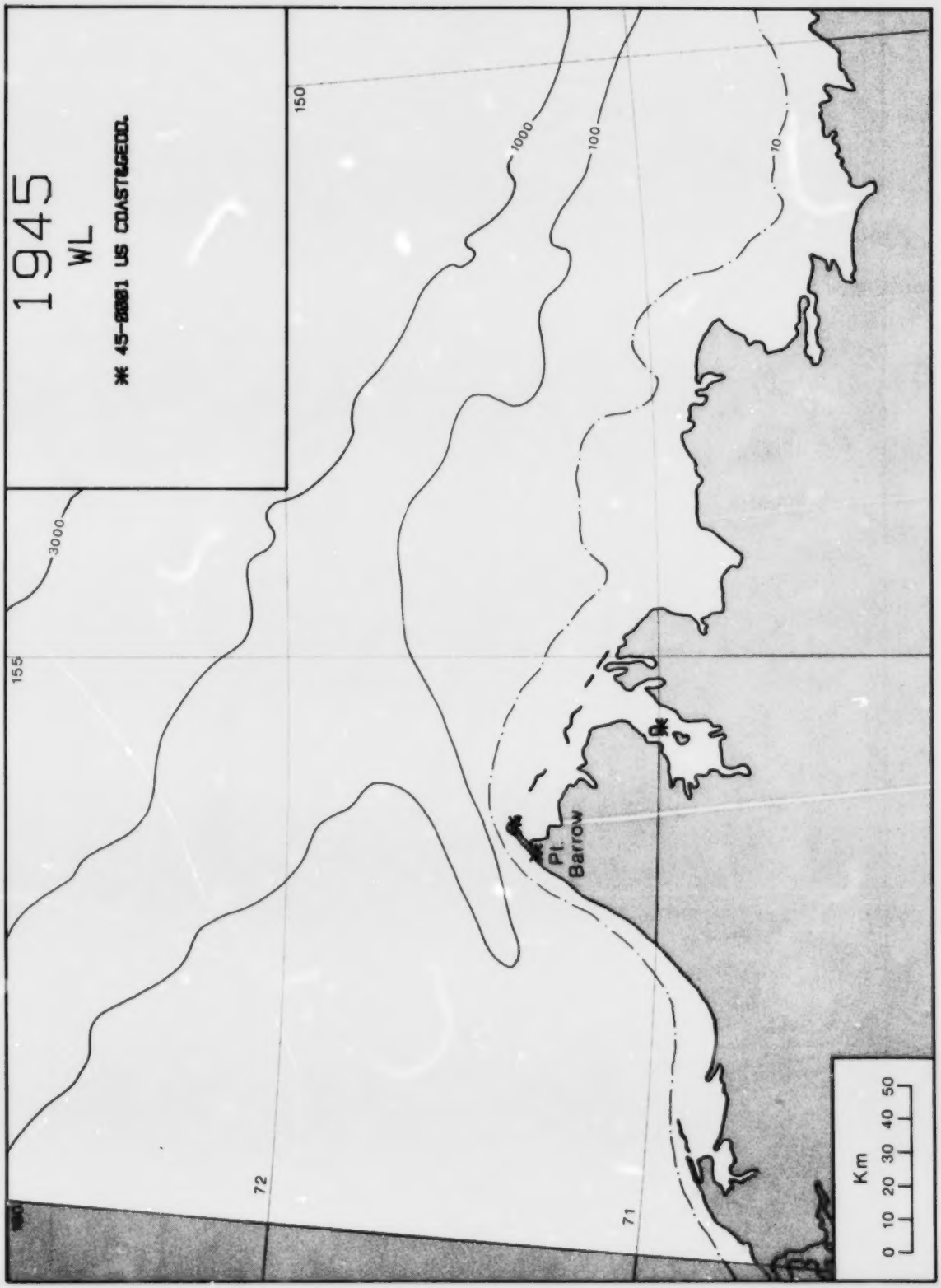

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1937
TS
37-[illegible] ST. ROCHE
37-[illegible] NORTHLAND ?

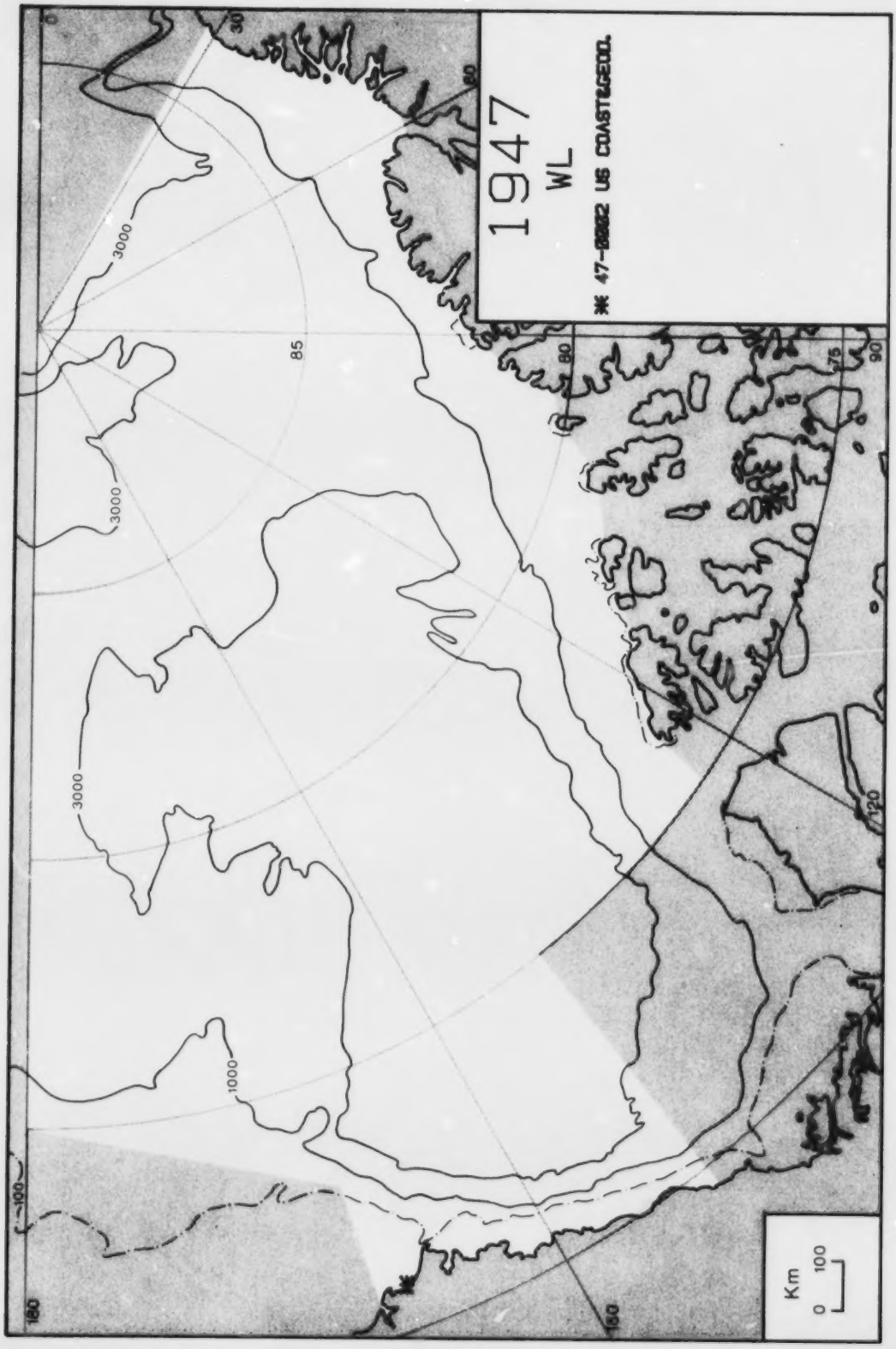

1938
TS
38-0003 NORTHLAND
3000
3000
3000
1000
85
80
75
90
120
150
Km
0
100

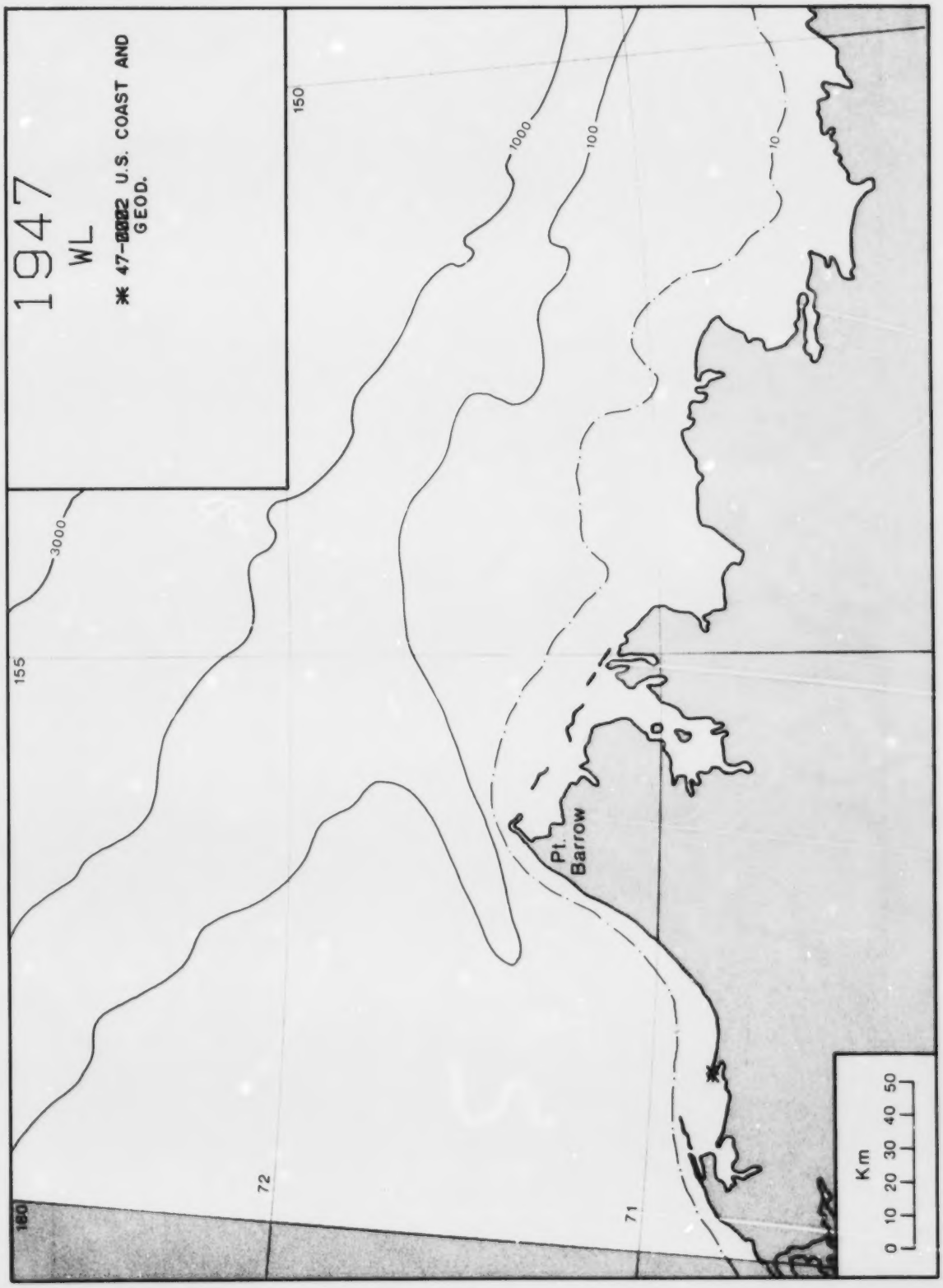

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1938
TS
38-0003 NORTHLAND

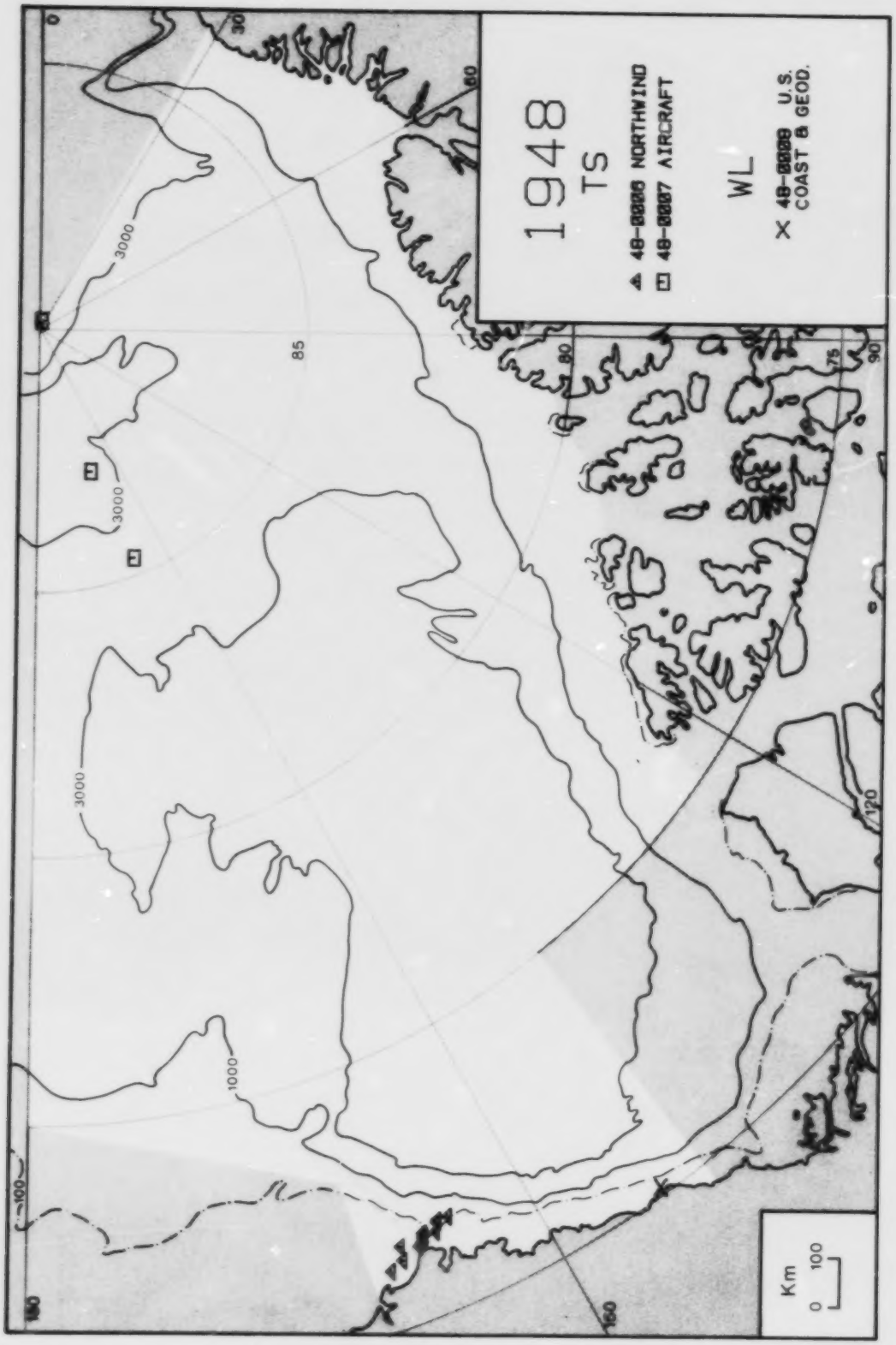

1941
TS
41-0001 N-180
3000
3000
3000
1000
85
80
75
90
120
150
150
100
0
30
60
Km
0
100

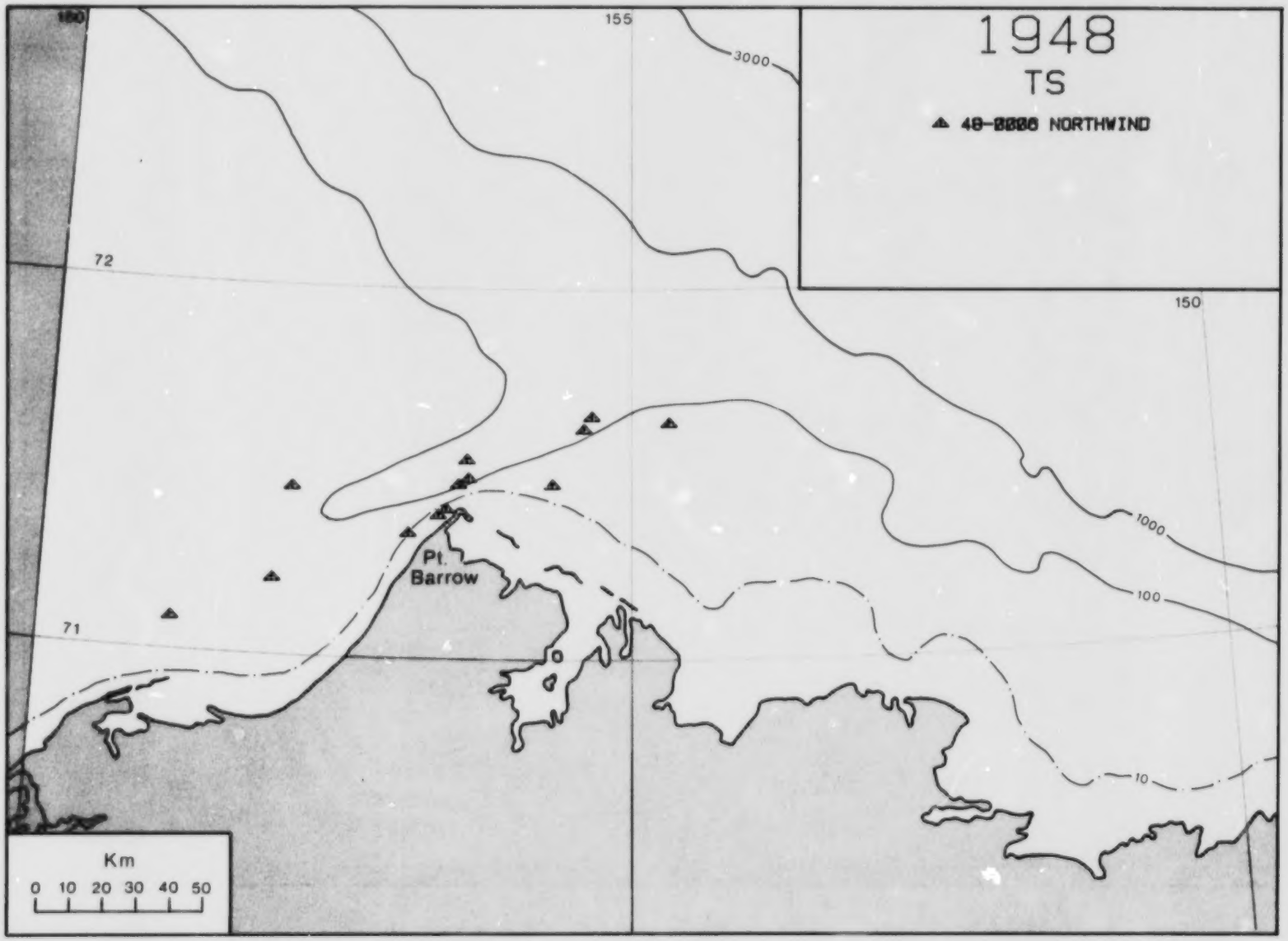

1945
WL
* 45-0001 US COAST&GEOD.
3000
3000
3000
1000
85
80
75
90
120
160
180
100
0
30
60
Km
0
100

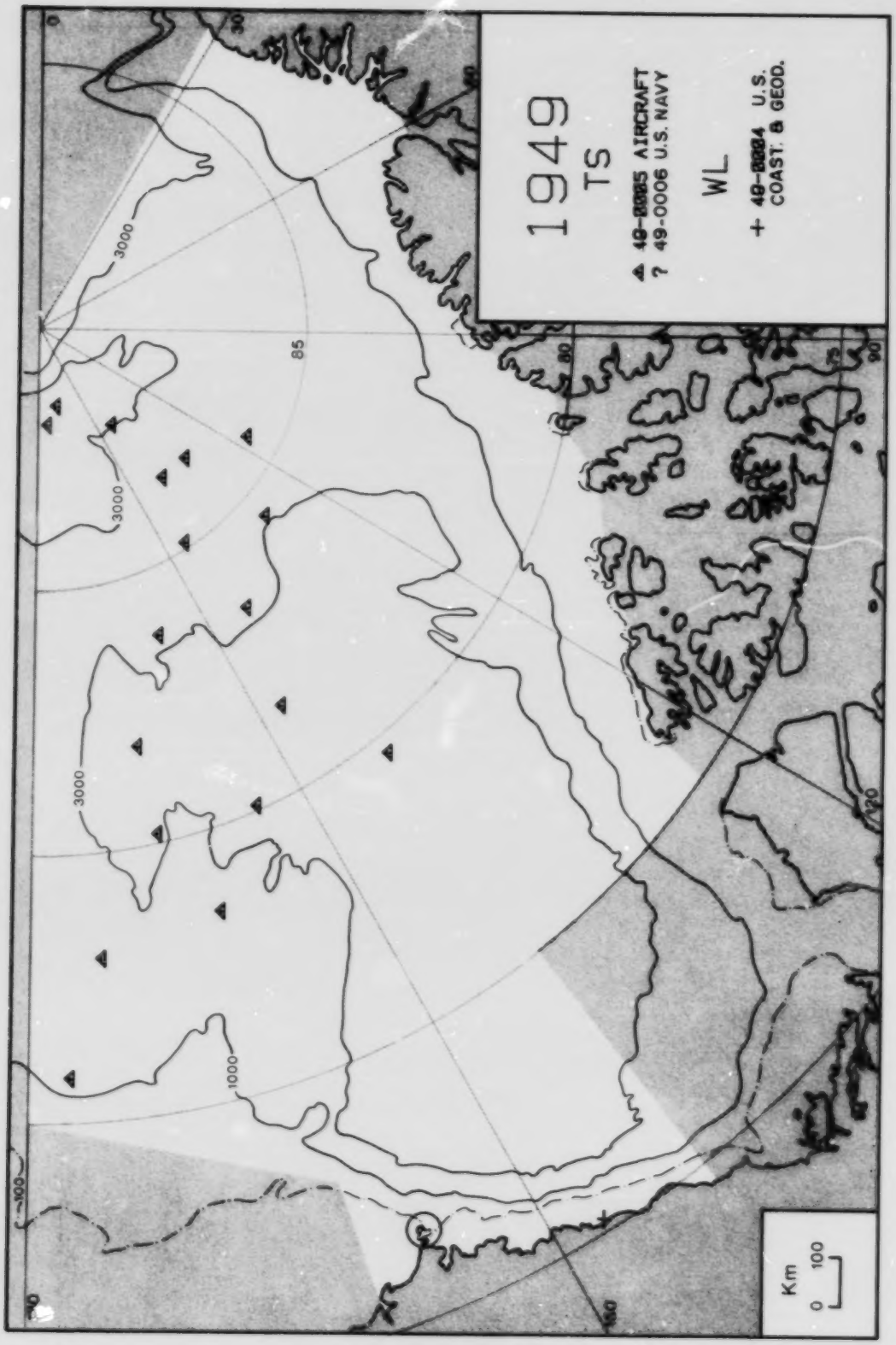

1945
WL
* 45-0001 US COASTGEOD.
3000
1000
100
10
150
155
72
71
Pt. Barrow
Km
0 10 20 30 40 50

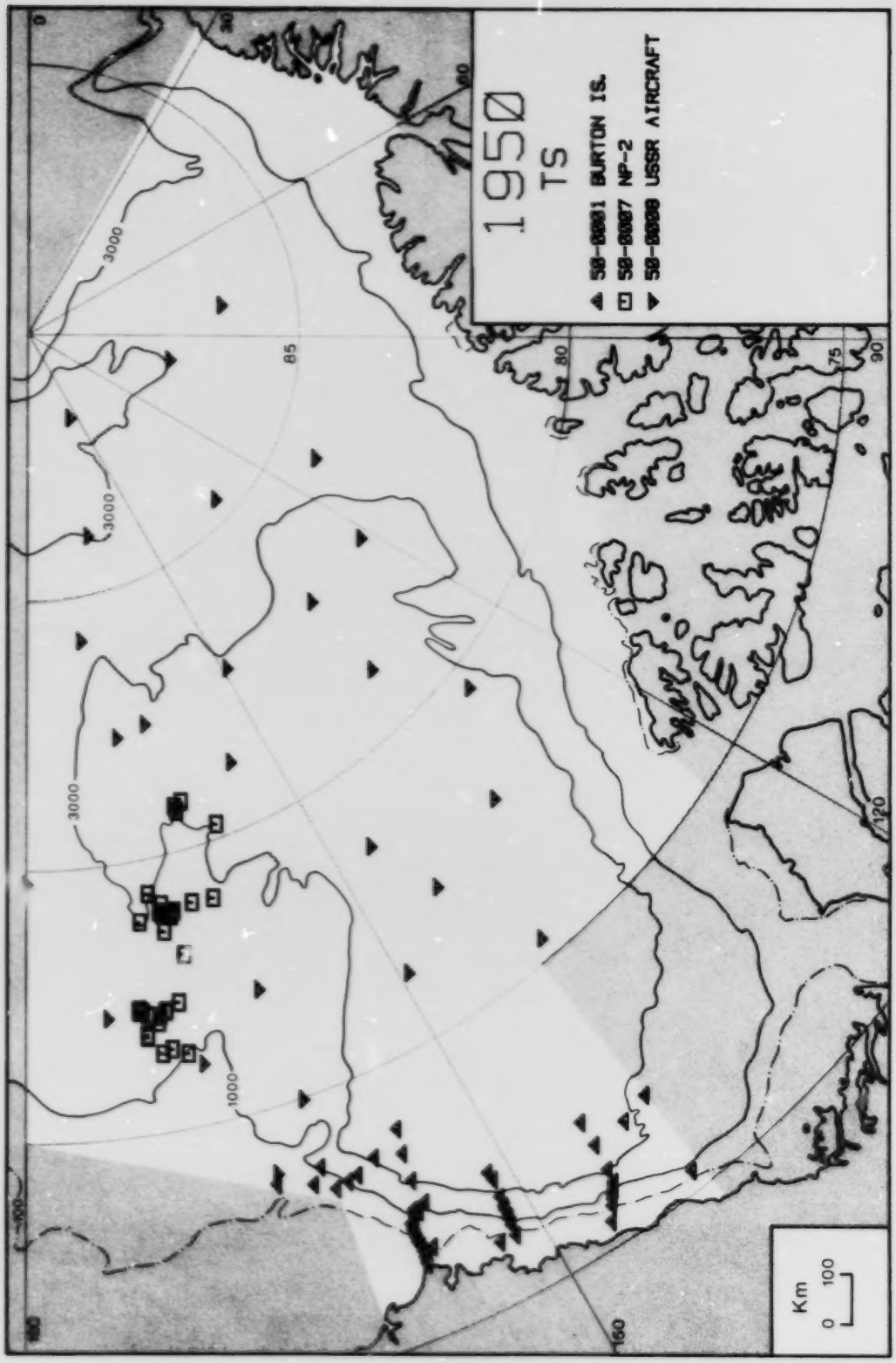

1947
WL
* 47-0002 US COAST&GEOD.
3000
3000
3000
1000
85
80
75
90
120
180
150
100
Km
0
100

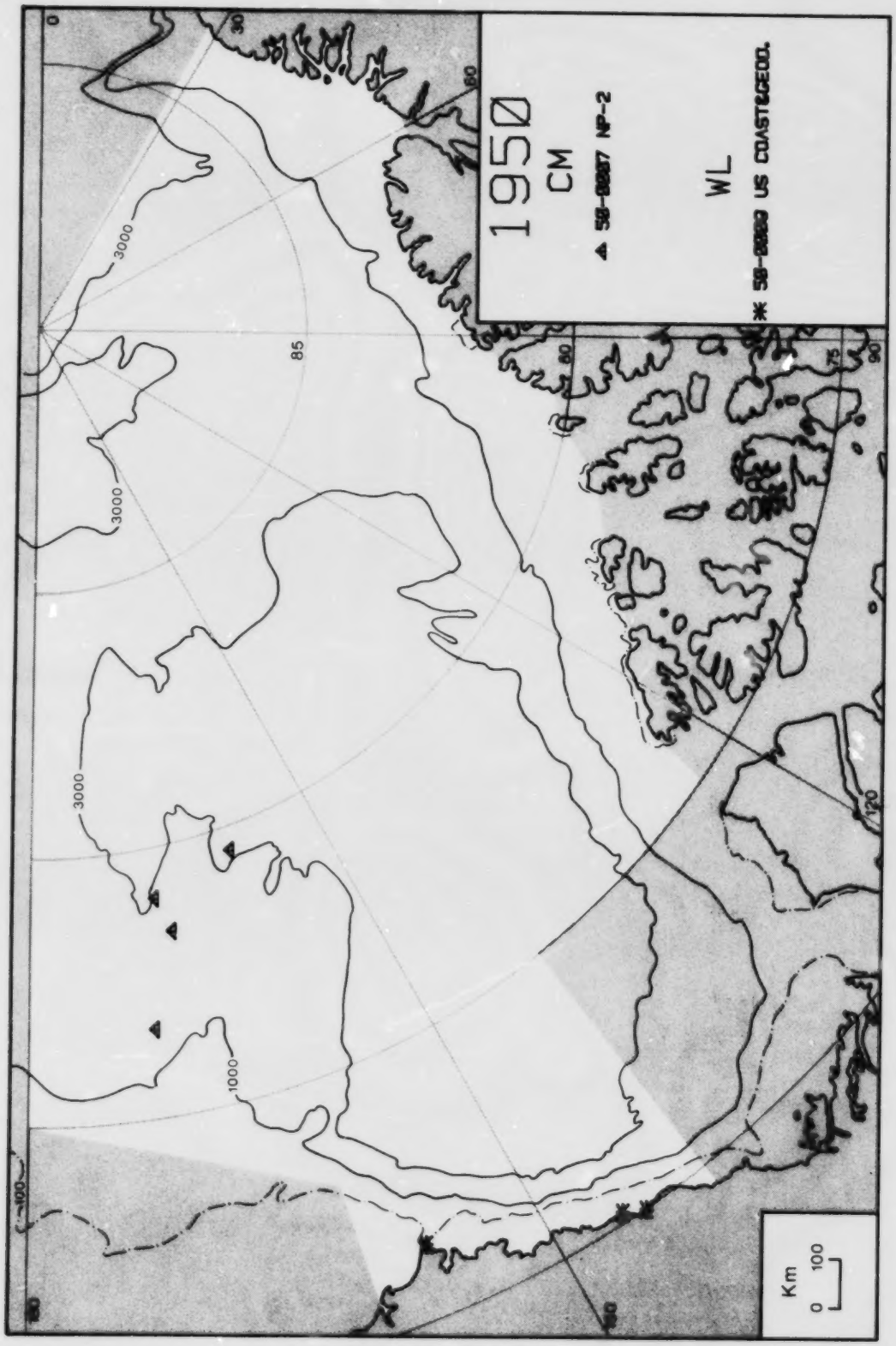

1947
WL
* 47-0002 U.S. COAST AND GEOD.
150
155
180
72
71
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

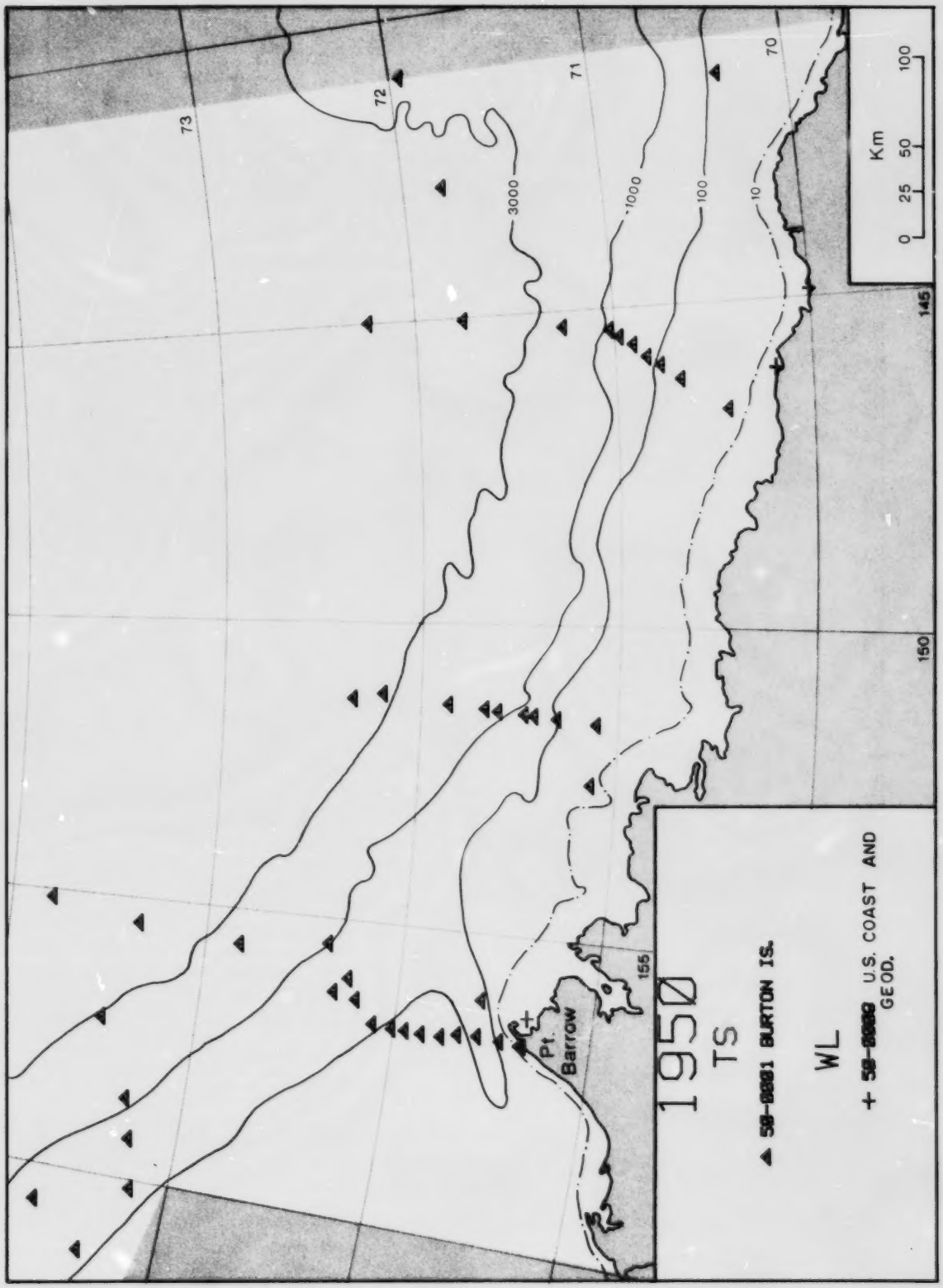

1948
TS
48-0006 NORTHWIND
48-0007 AIRCRAFT
WL
48-0009 U.S. COAST & GEOD.
Km
0
100
3000
1000
85
80
75
90
120
160
180
100
60
30

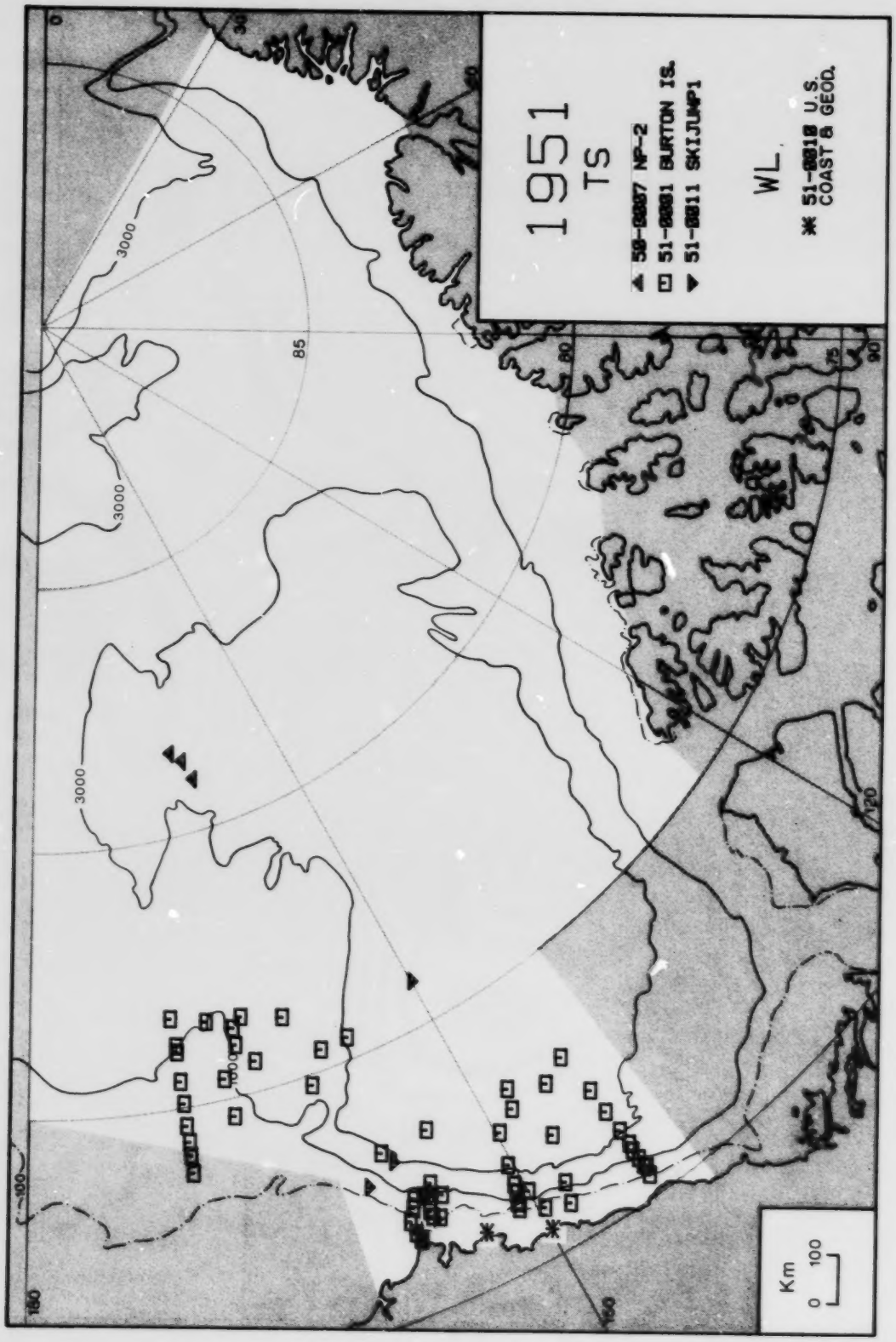

1948
TS
▲ 48-0006 NORTHWIND
160
155
150
72
71
3000
1000
100
10
Pt.
Barrow
Km
0 10 20 30 40 50

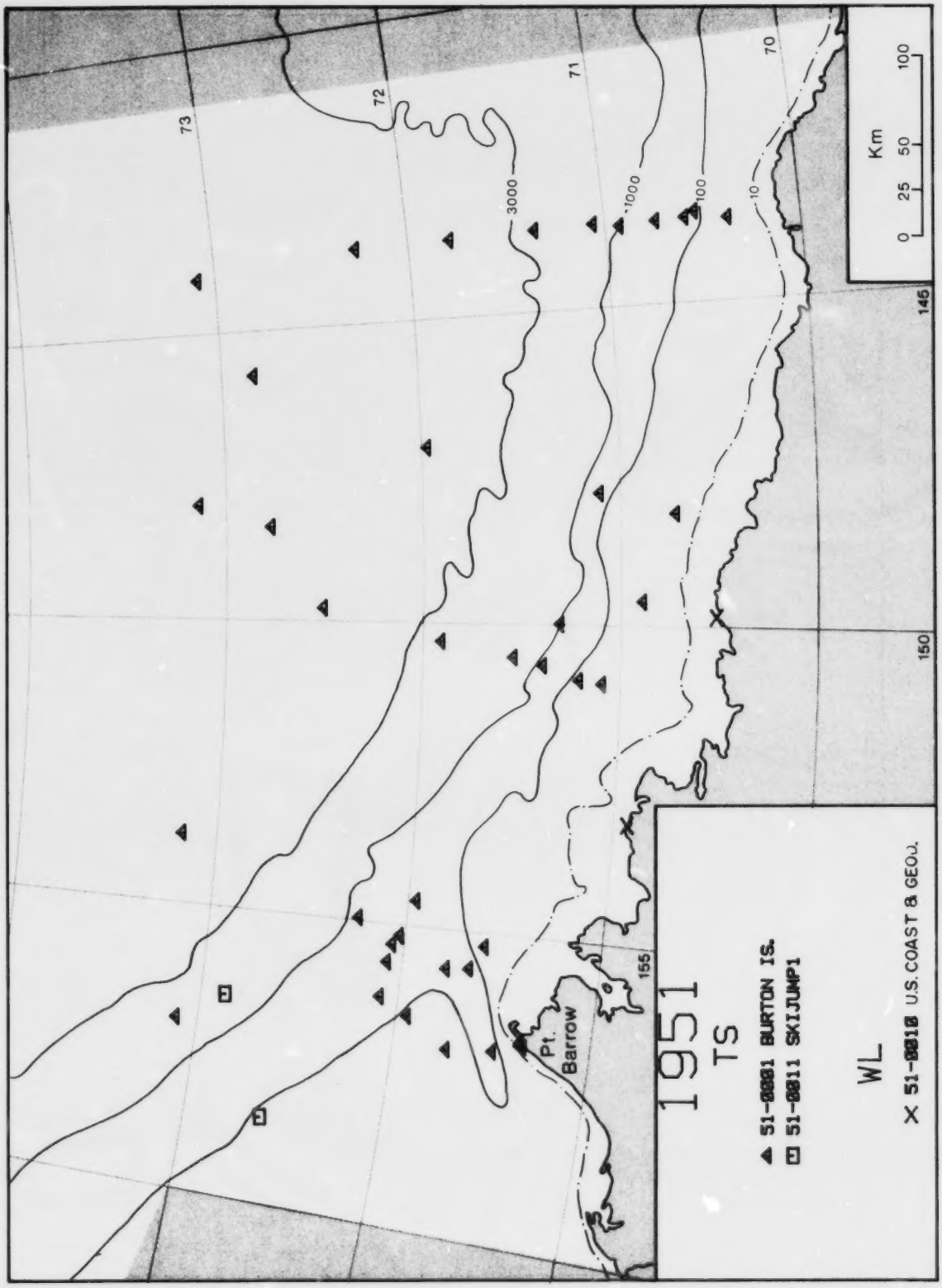

1949
TS
49-0005 AIRCRAFT
? 49-0006 U.S. NAVY
WL
+ 49-0004 U.S.
COAST. & GEOD.
3000
3000
3000
1000
85
80
75
90
120
150
Km
0
100

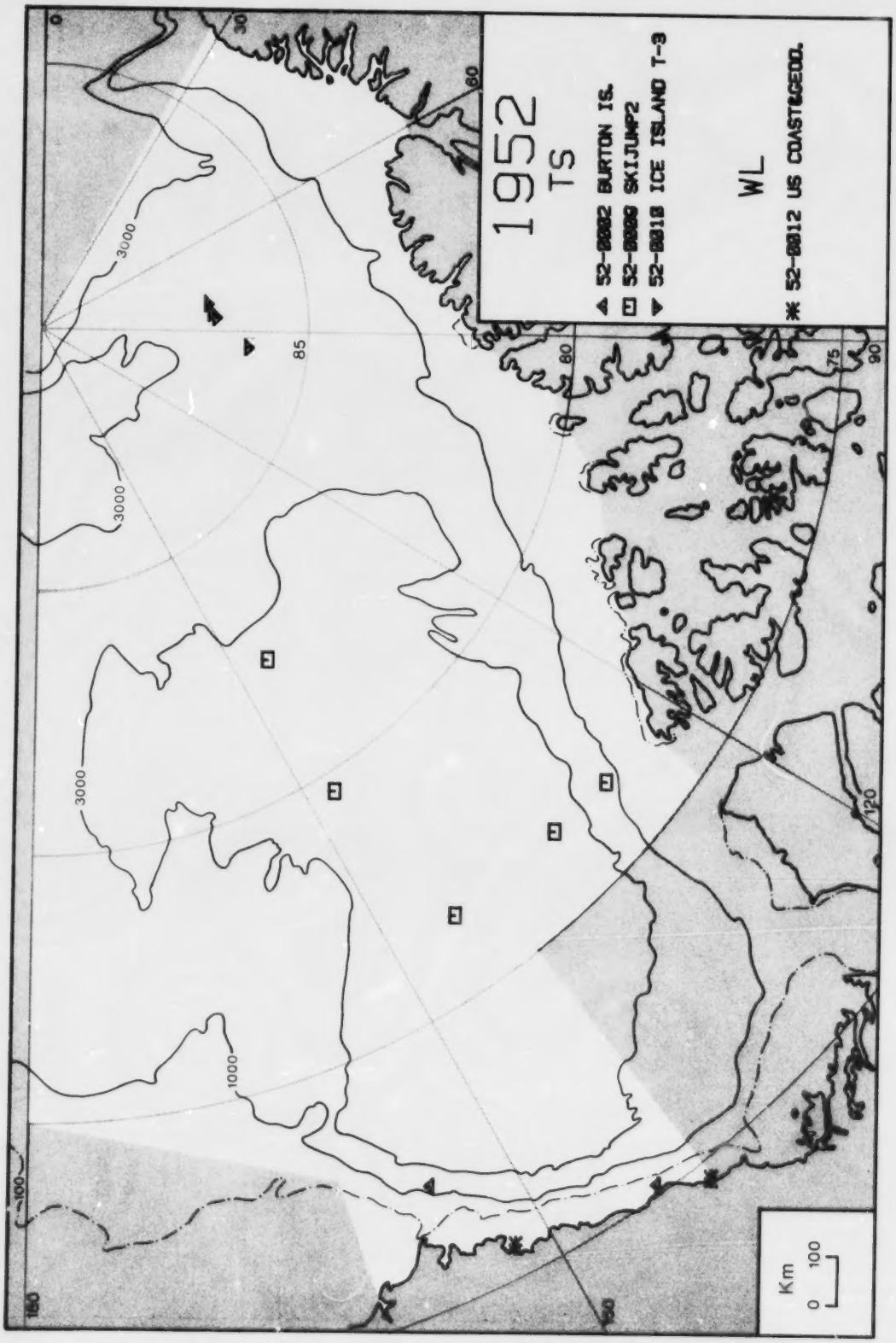

1950
TS
50-0001 BURTON IS.
50-0007 NP-2
50-0008 USSR AIRCRAFT
3000
3000
3000
1000
85
80
75
90
120
160
Km
0
100


1950
CM
WL
US COAST&GEOD.
3000
3000
3000
1000
85
Km
0
100

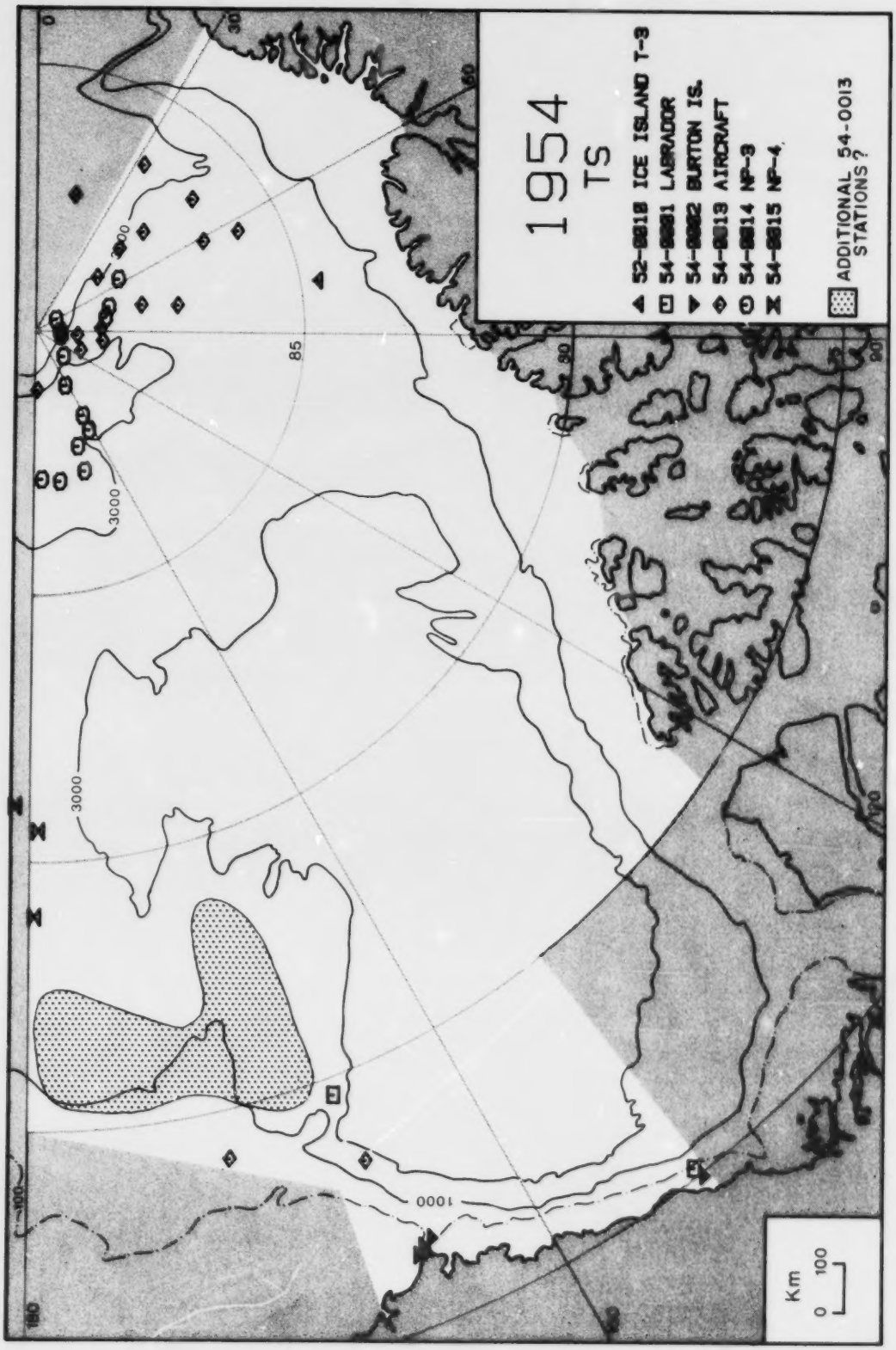

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1950
TS
▲ 59-00001 BURTON IS.
WL
+ 59-00006 U.S. COAST AND GEOD.

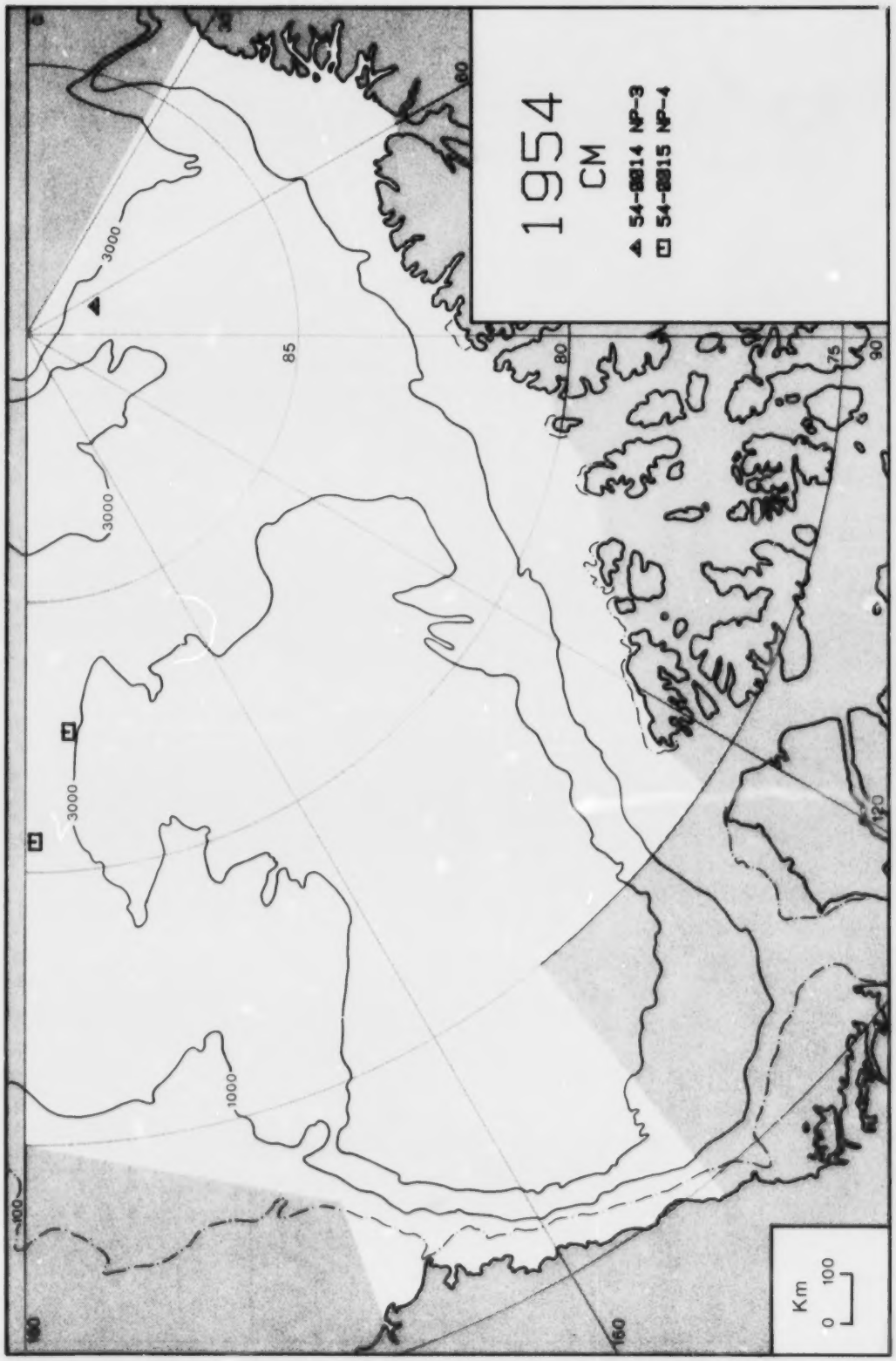

1951
TS
50-0007 NP-2
51-0001 BURTON IS.
51-0011 SKIJUMP1
WL
51-0010 U.S. COAST & GEOD.
3000
85
80
75
90
120
150
180
100
Km
0
100

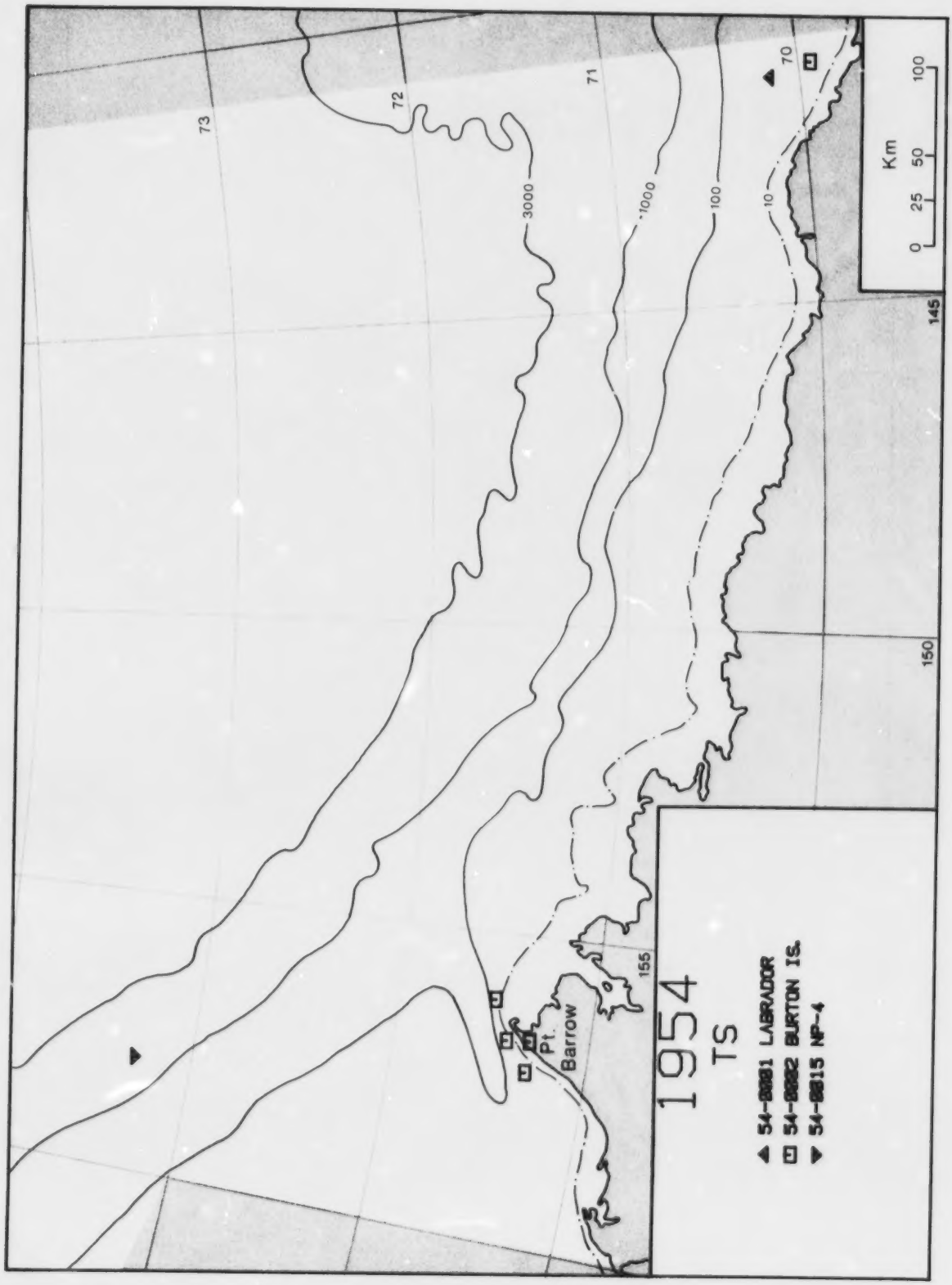

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1951
TS
▲ 51-0881 BURTON IS.
⊡ 51-0811 SKIJUMP1
WL
× 51-0810 U.S.COAST & GEOD.


1952
TS
52-0002 BURTON IS.
52-0009 SKIJUMP2
52-0010 ICE ISLAND T-3
WL
52-0012 US COAST&GEOD.
Km
0 100
3000
1000
85
80
75
90
120
60
30
0
100
150

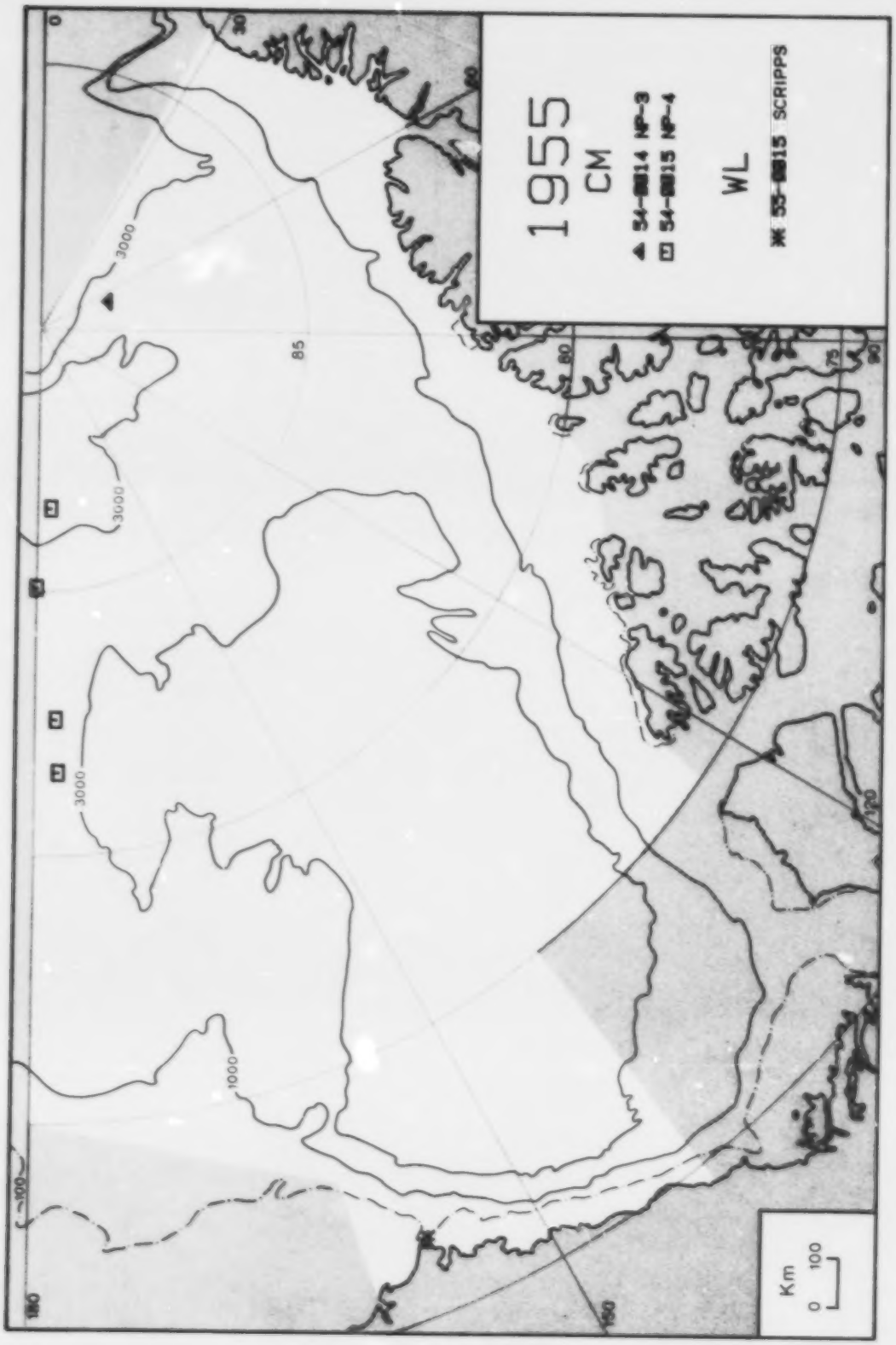
1953
TS
52-0010 ICE ISLAND T-3
3000
3000
3000
1000
Km
0
100

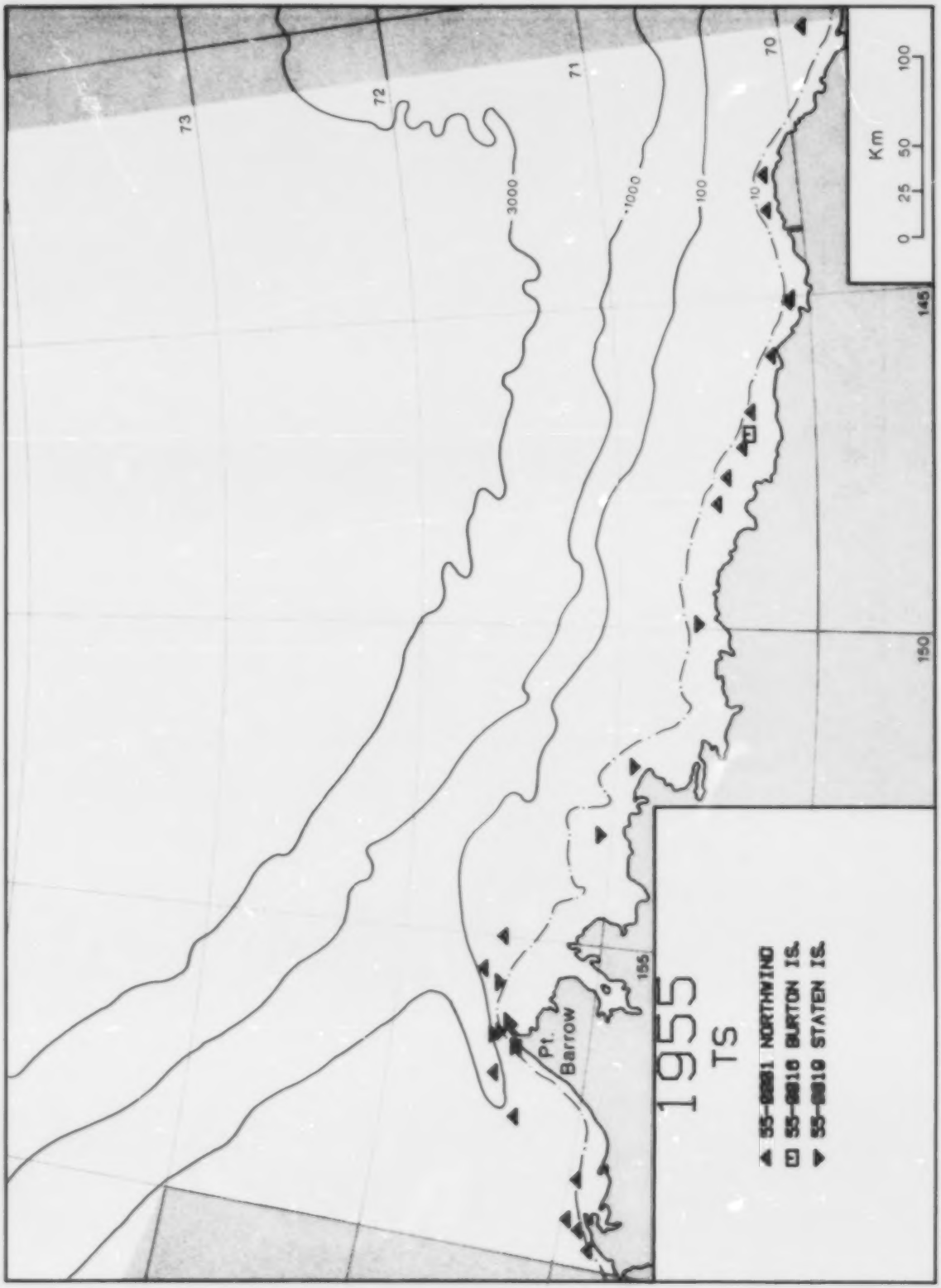

1954
TS
52-0010 ICE ISLAND T-3
54-0001 LABRADOR
54-0002 BURTON IS.
54-0013 AIRCRAFT
54-0014 NP-3
54-0015 NP-4
ADDITIONAL 54-0013 STATIONS?
Km
0
100
3000
1000
85
0
30
60
80
90
100
180

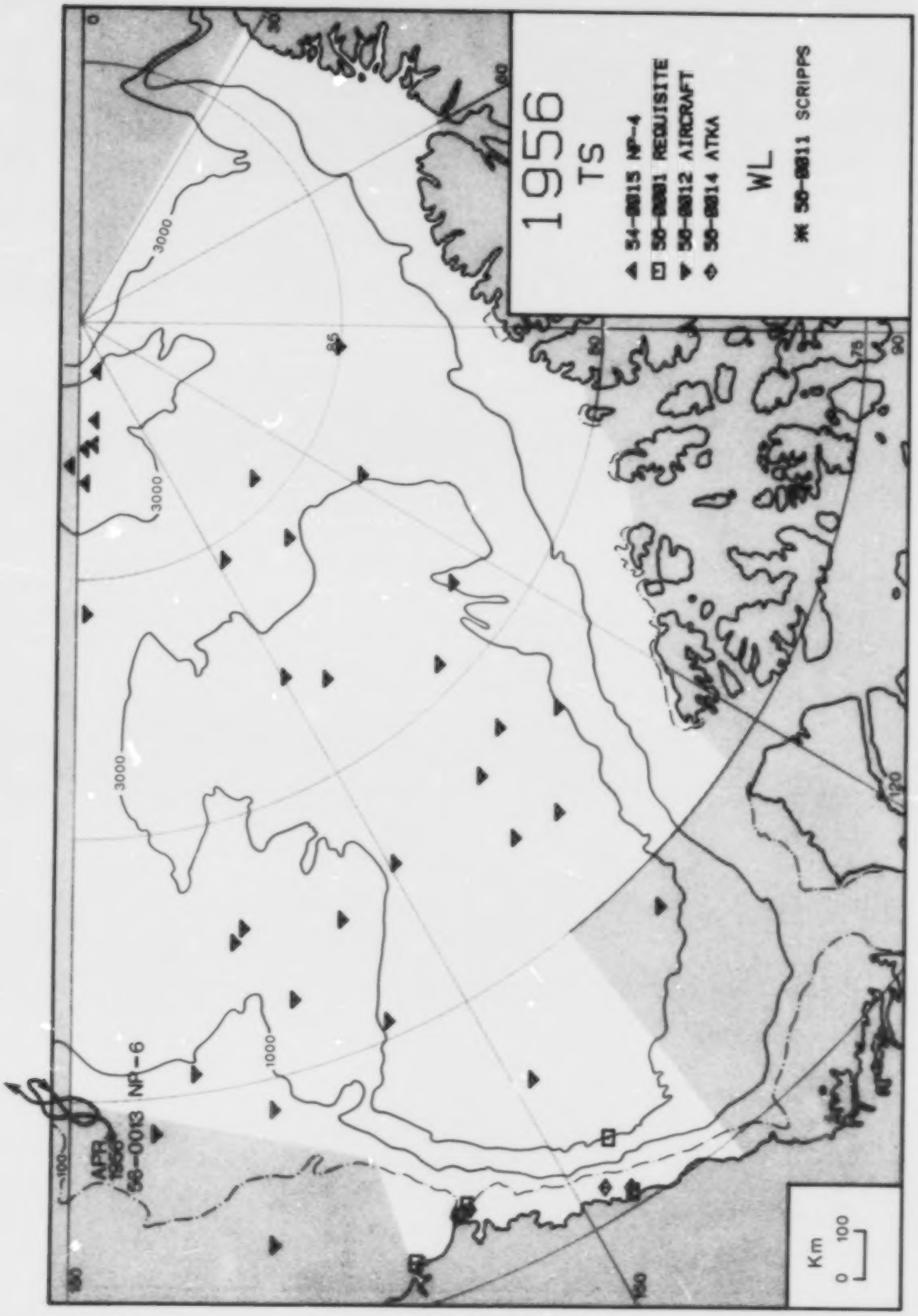

1954
CM
54-0014 NP-3
54-0015 NP-4
3000
3000
3000
1000
85
80
75
90
120
160
Km
0
100

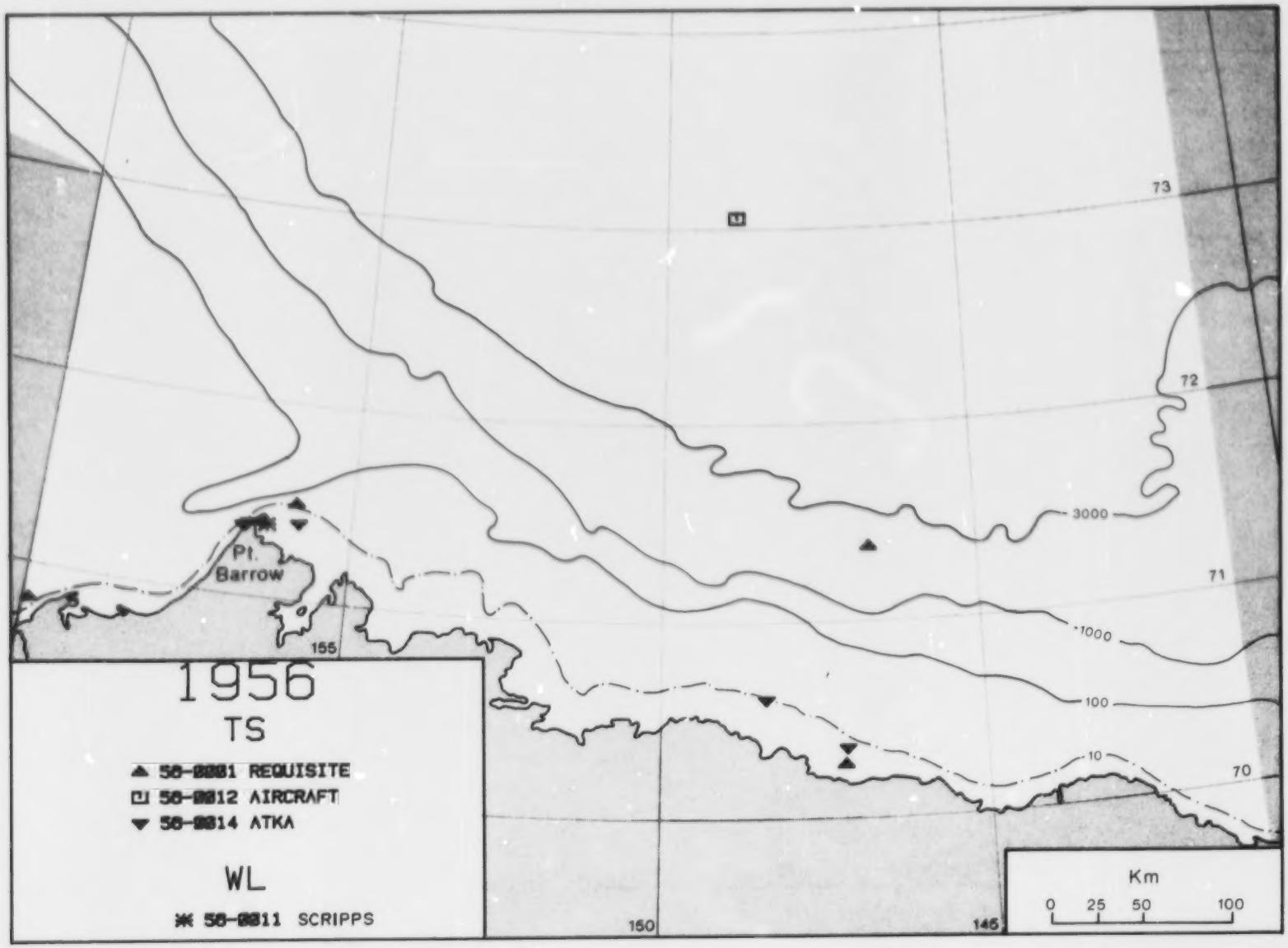

73
72
71
70
3000
1000
100
10
Pt.
Barrow
155
150
145
Km
0
25
50
100
1954
TS
54-8881 LABRADOR
54-8882 BURTON IS.
54-8815 NP-4

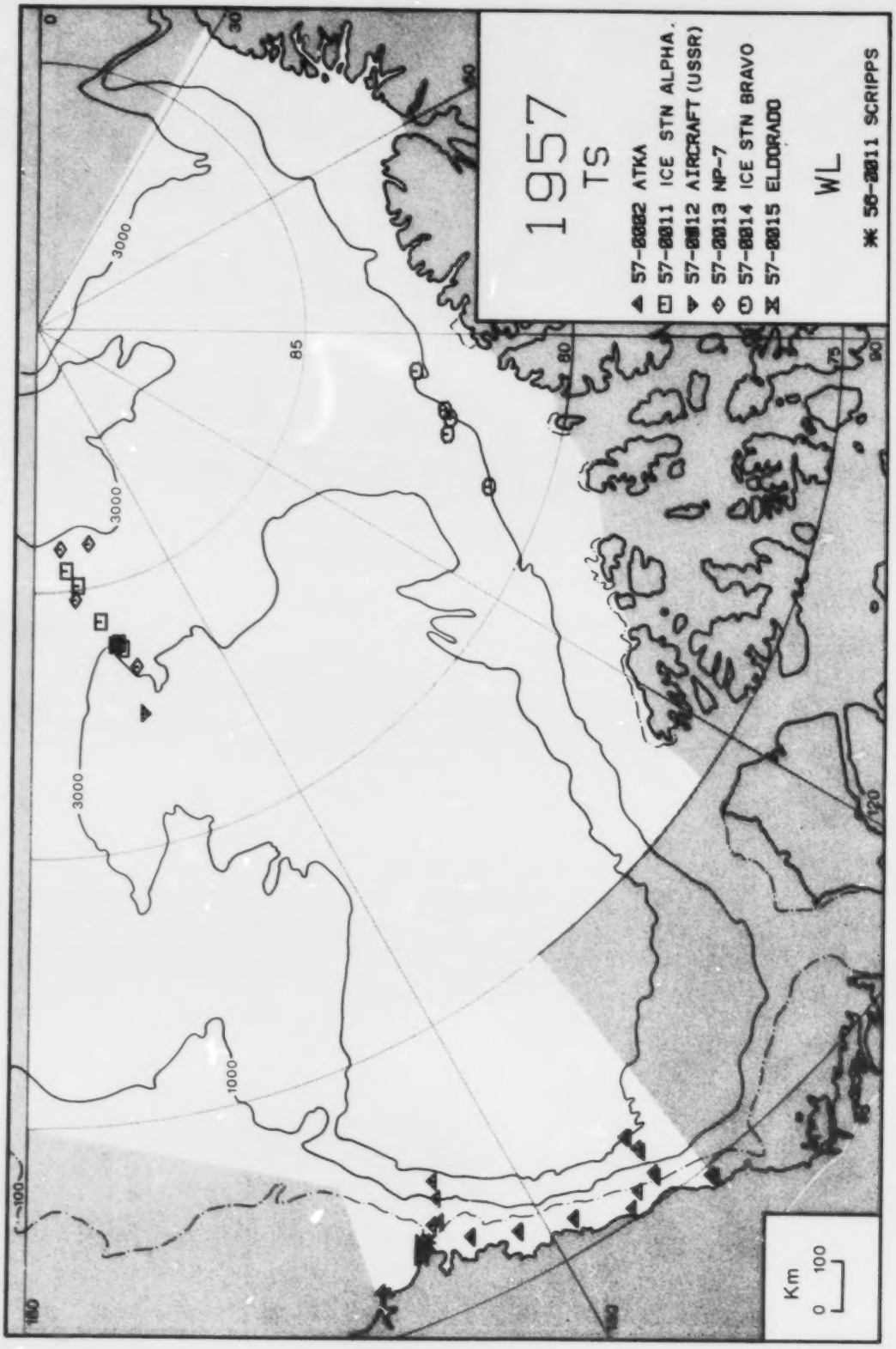
1955
TS
52-0018 ICE ISLAND T-3
54-0014 NP-3
54-0015 NP-4
55-0001 NORTHWIND
55-0016 BURTON IS.
55-0017 AIRCRAFT
55-0019 STATEN IS.
Km
0 100
0
30
60
75
80
85
90
120
150
160
-100
1000
3000
3000
3000

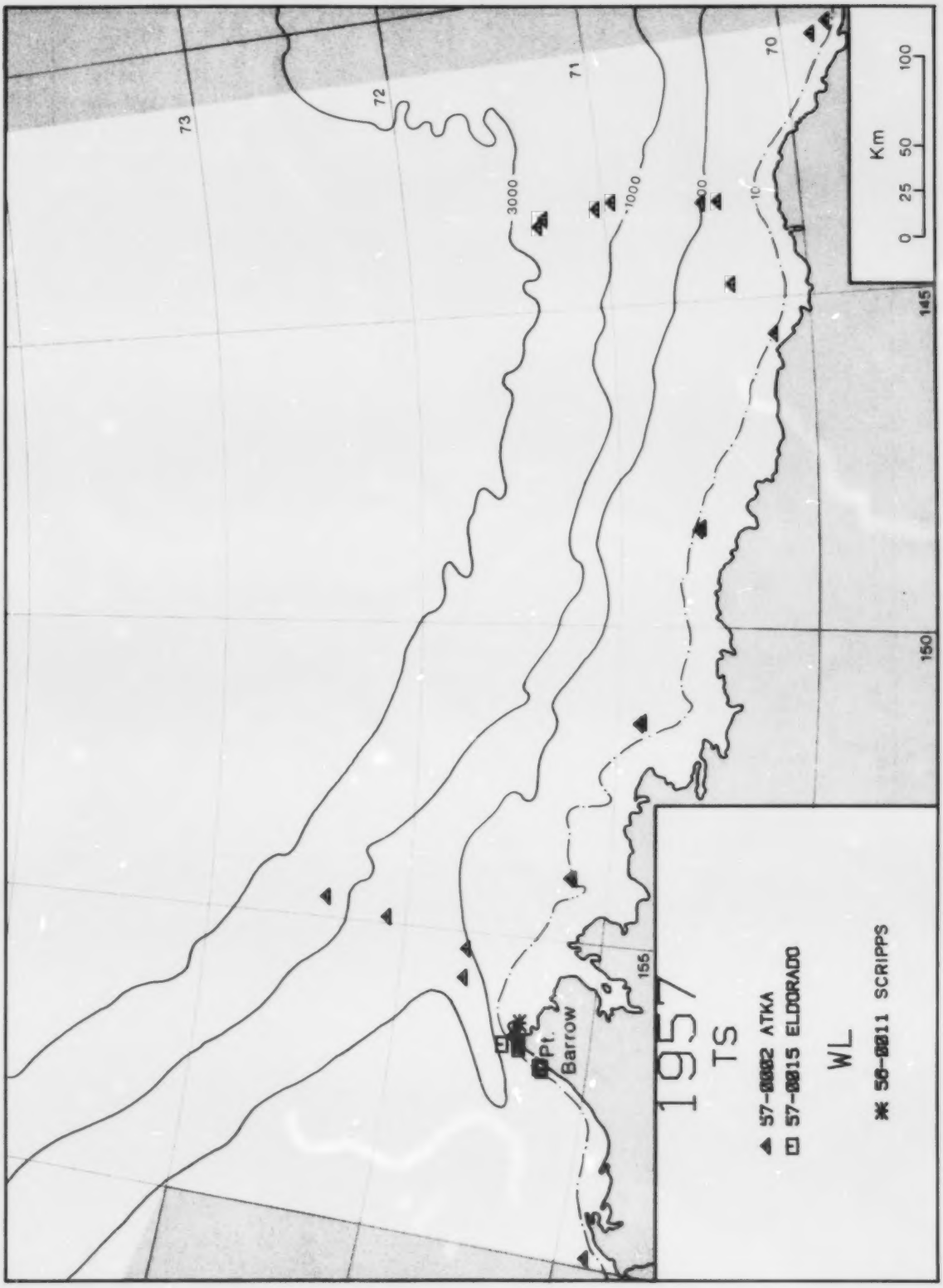

1955
CM
54-0014 NP-3
54-0015 NP-4
WL
55-0015 SCRIPPS
3000
3000
3000
1000
85
80
75
90
120
150
180
100
0
30
60
Km
0
100

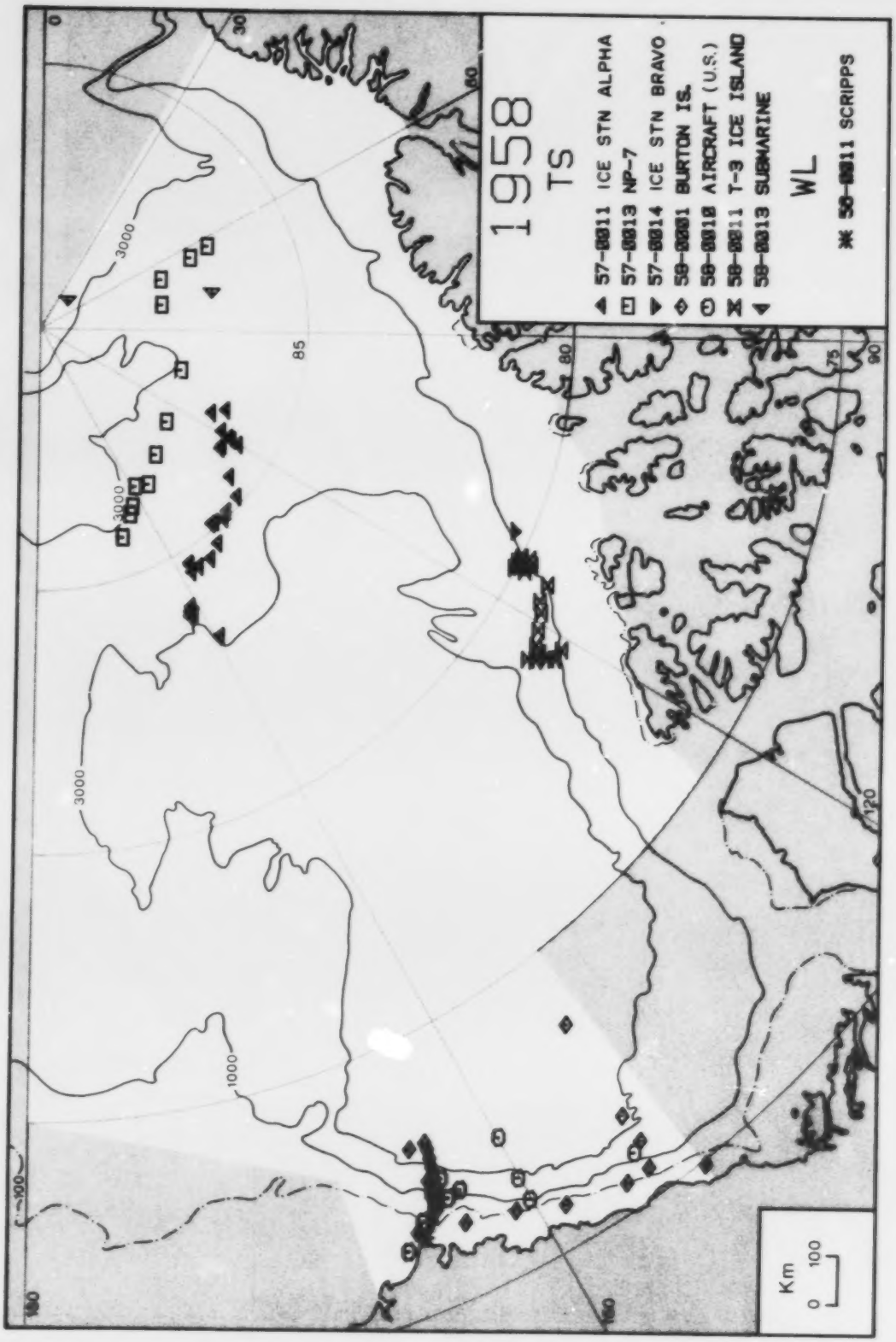

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1955
TS
55-0881 NORTHWIND
55-0810 BURTON IS.
55-0810 STATEN IS.

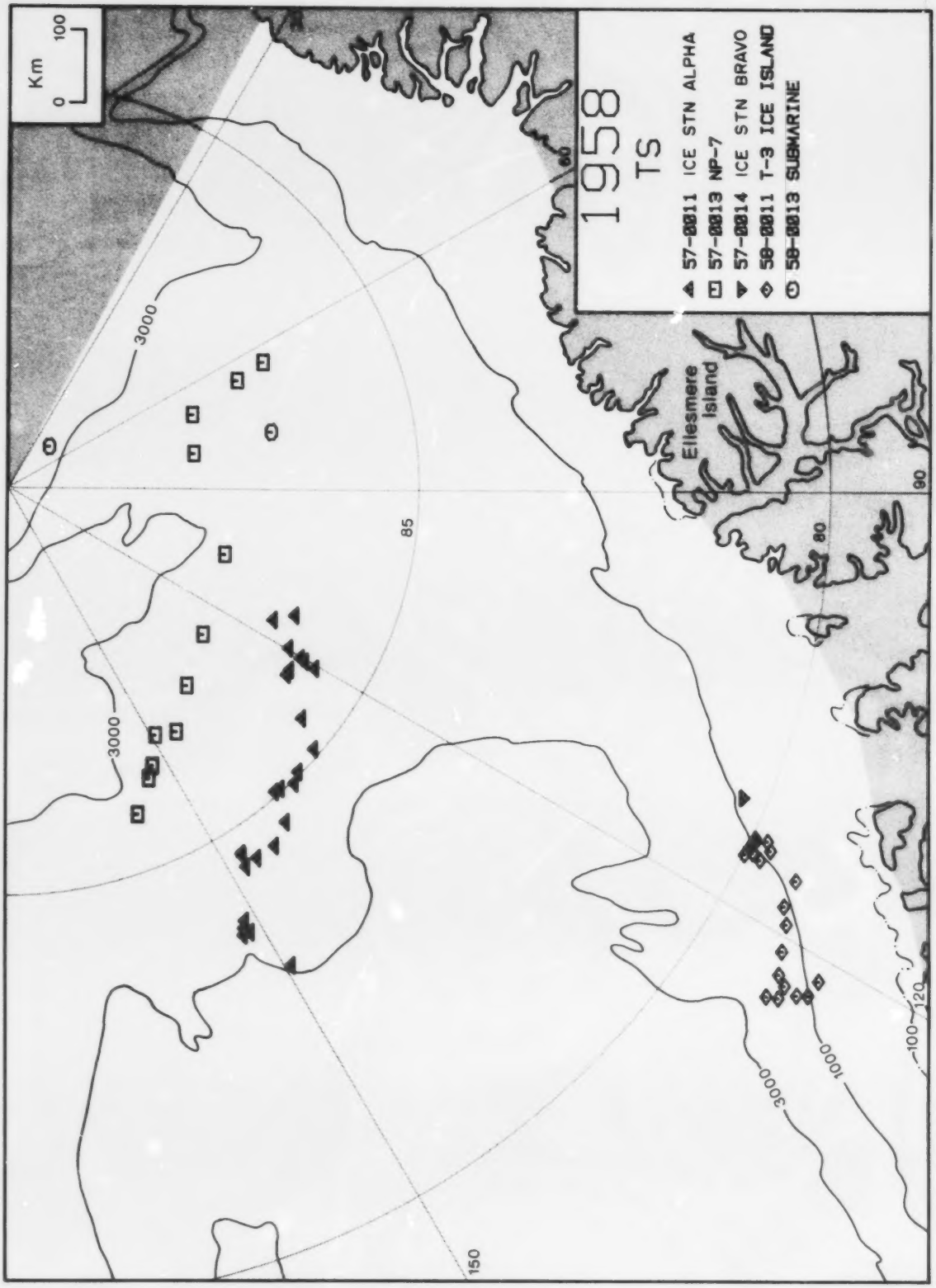

1956
TS
54-0015 NP-4
56-0001 REQUISITE
56-0012 AIRCRAFT
56-0014 ATKA
WL
56-0011 SCRIPPS
APR
1956
56-0013 NP-6
3000
1000
Km
0
100

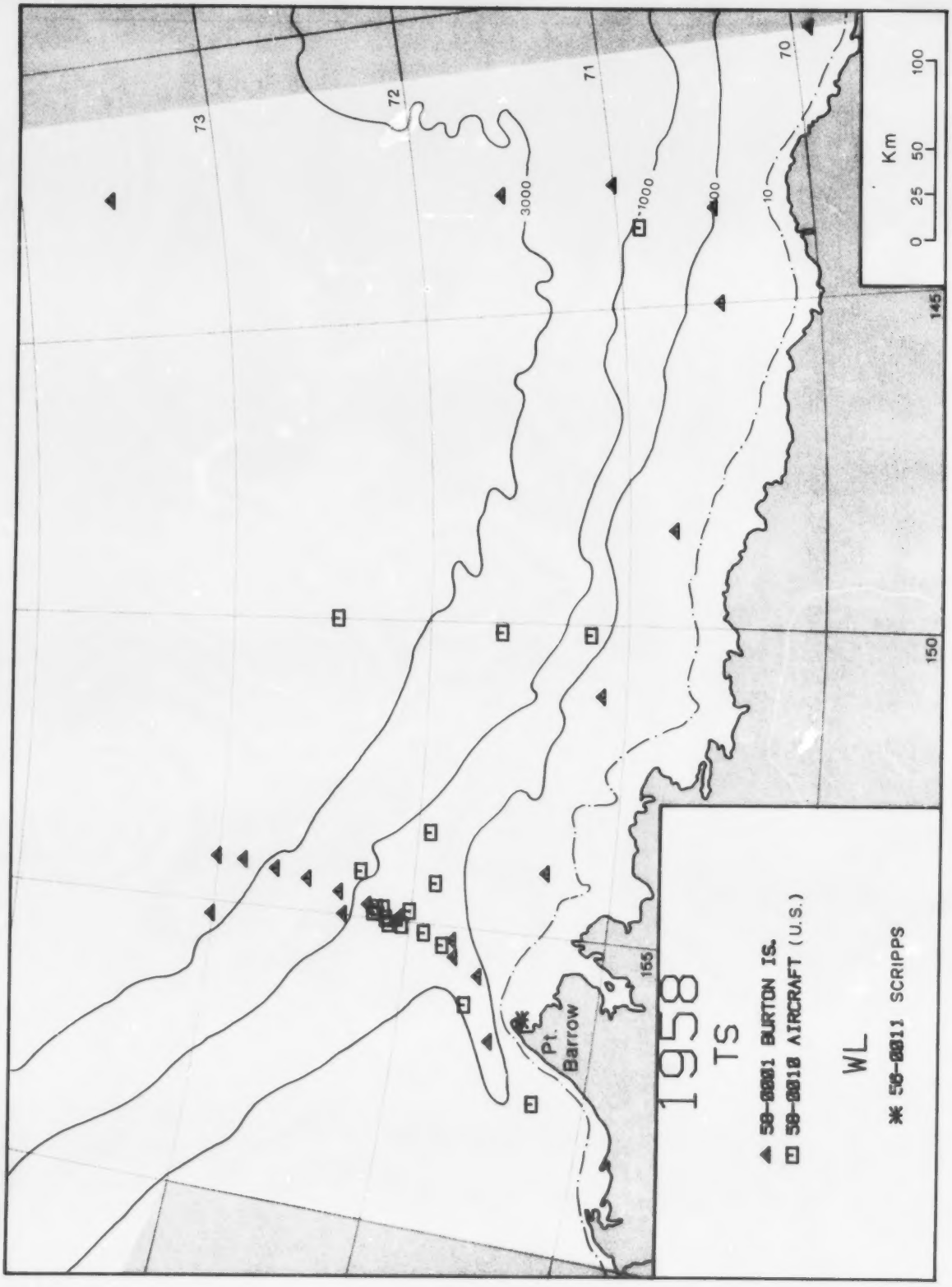

1956
TS
▲ 56-0001 REQUISITE
56-0012 AIRCRAFT
▼ 56-0014 ATKA
WL
56-0011 SCRIPPS
Pt. Barrow
155
150
145
73
72
71
70
3000
1000
100
10
Km
0 25 50 100


1957
TS
57-0002 ATKA
57-0011 ICE STN ALPHA.
57-0012 AIRCRAFT (USSR)
57-0013 NP-7
57-0014 ICE STN BRAVO
57-0015 ELDORADO
WL
56-0011 SCRIPPS
Km
0 100
3000
1000
85
80
75
90
120
100
180
0
30
60

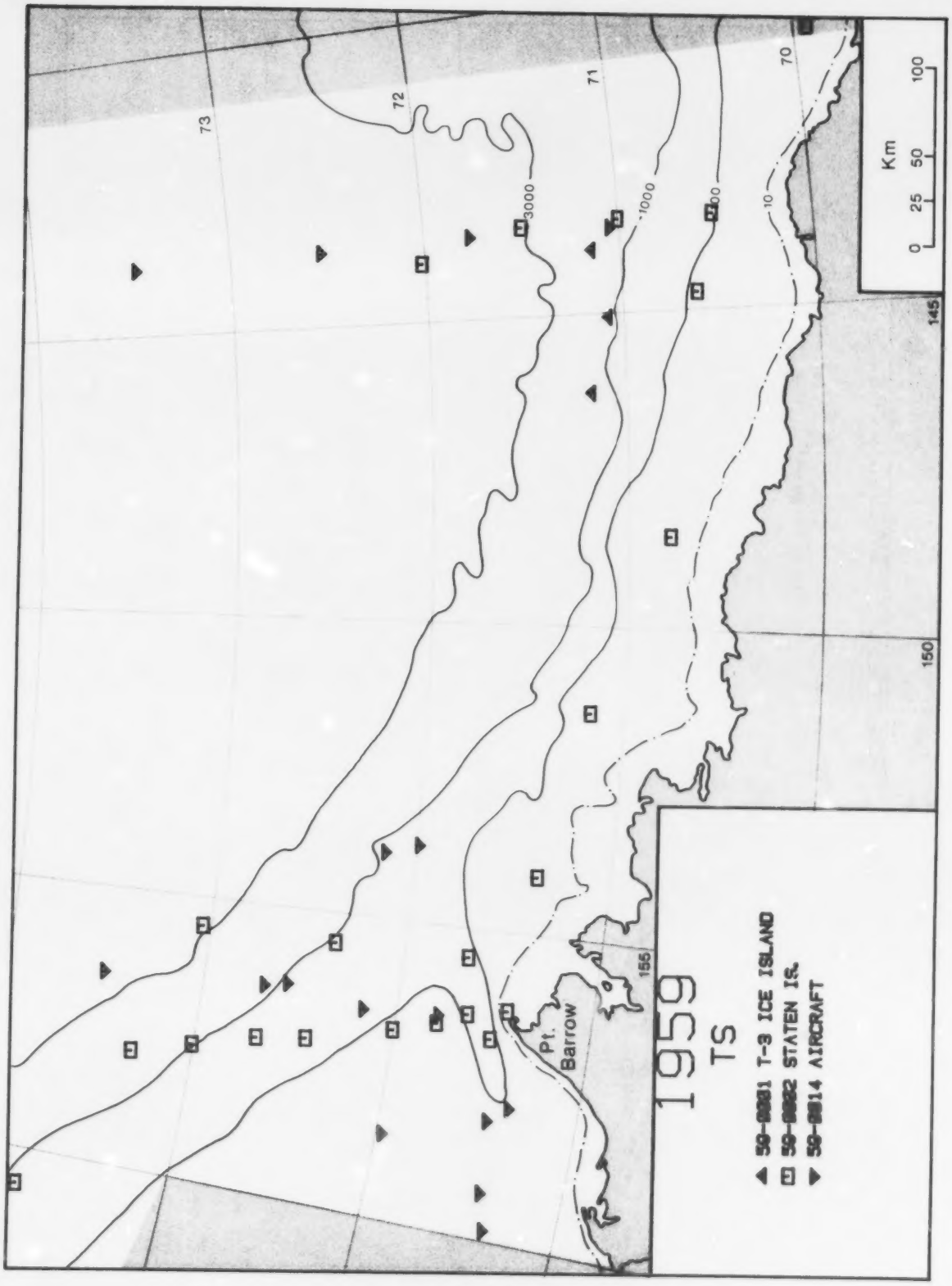

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1957
TS
57-0002 ATKA
57-0015 ELDORADO
WL
56-0011 SCRIPPS

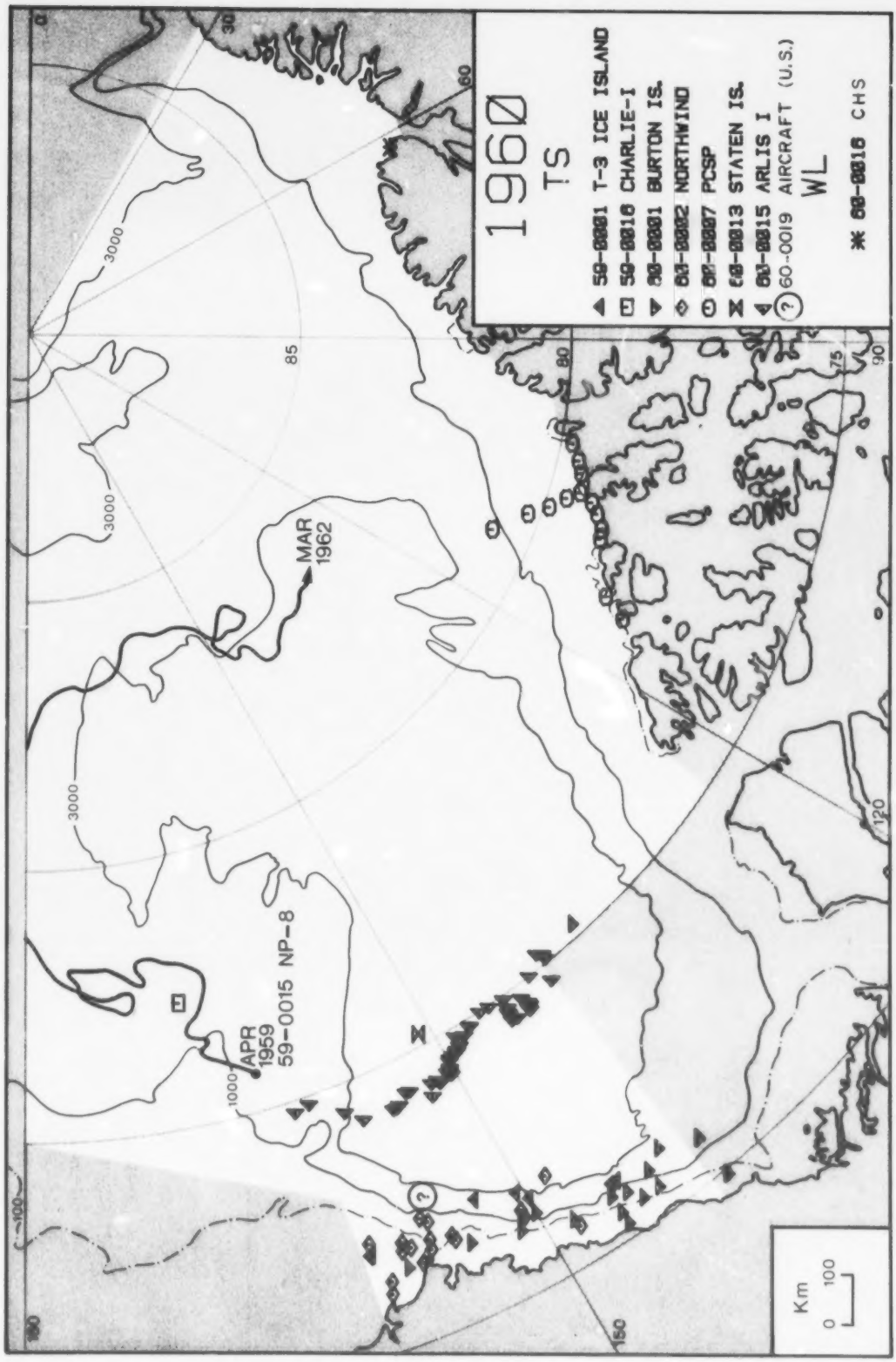

1958
TS
57-0011 ICE STN ALPHA
57-0013 NP-7
57-0014 ICE STN BRAVO
58-0001 BURTON IS.
58-0010 AIRCRAFT (U.S.)
58-0011 T-3 ICE ISLAND
58-0013 SUBMARINE
WL
58-0011 SCRIPPS
Km
0
100
3000
1000
85
80
75
90
120
30
60
0
100
180

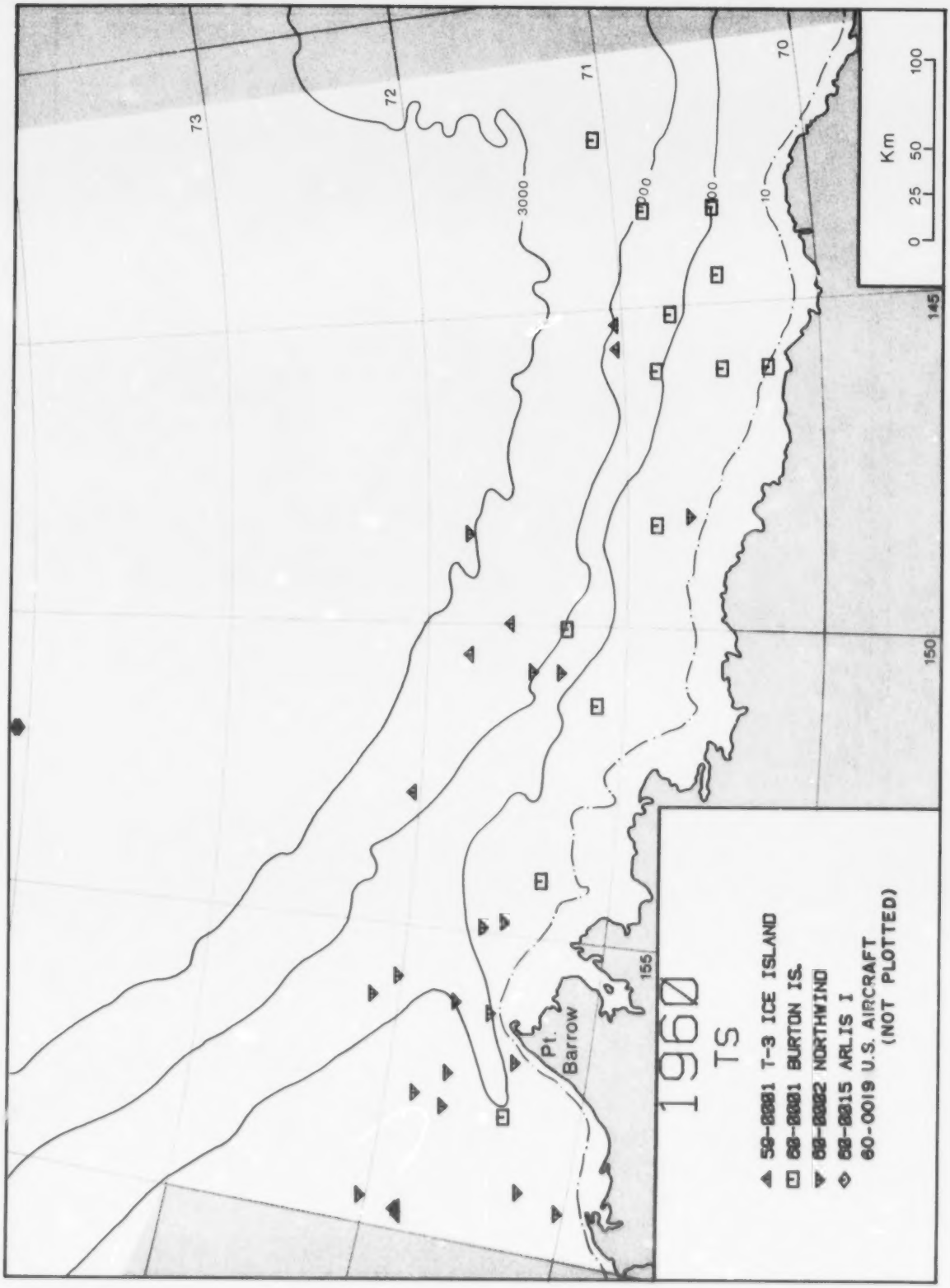

1958
TS
57-0011 ICE STN ALPHA
57-0013 NP-7
57-0014 ICE STN BRAVO
58-0011 T-3 ICE ISLAND
58-0013 SUBMARINE
Km
0
100
Ellesmere Island
3000
3000
3000
1000
100
120
150
85
80
90
60

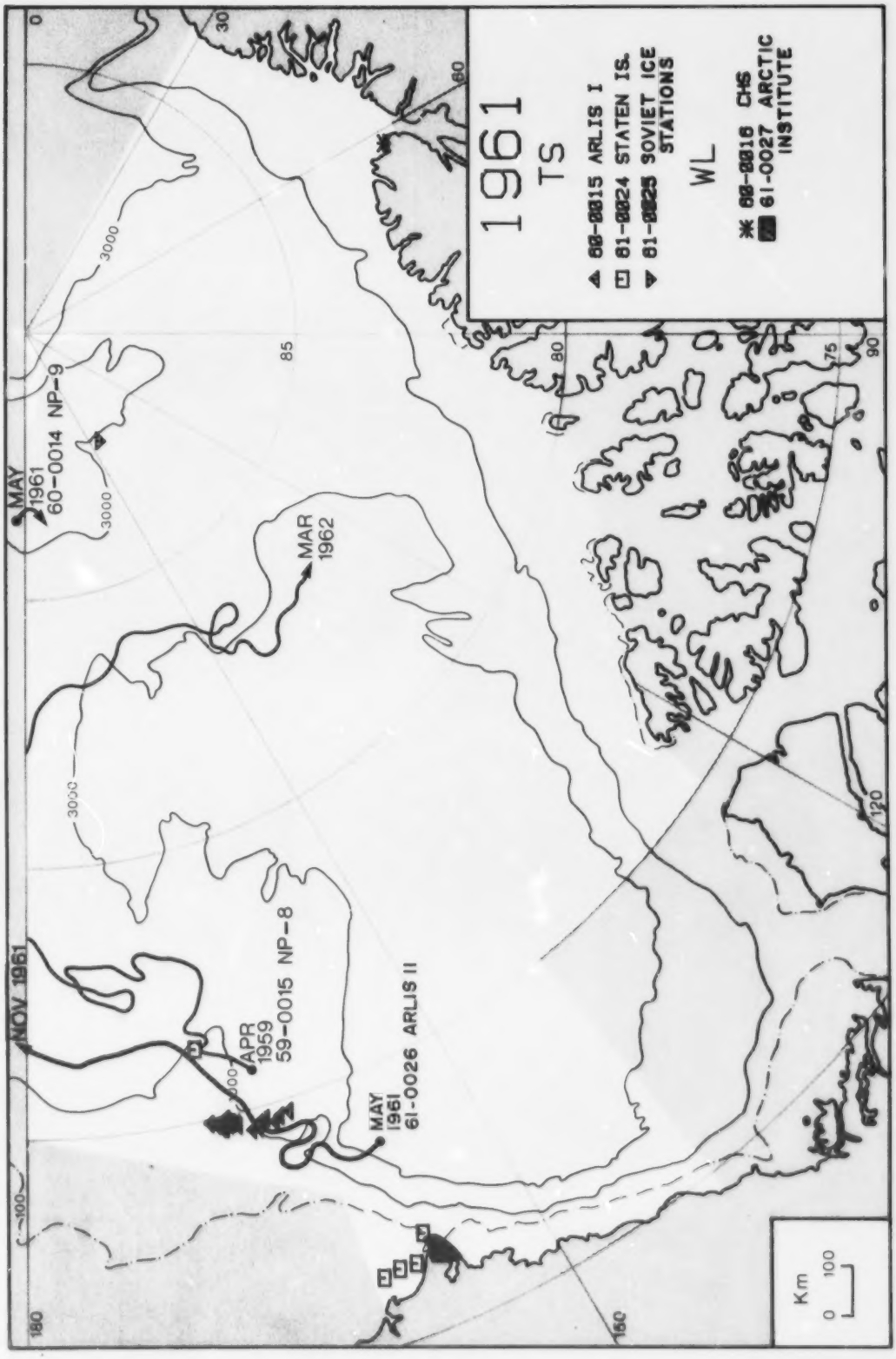

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1958
TS
58-0001 BURTON IS.
58-0010 AIRCRAFT (U.S.)
WL
58-0011 SCRIPPS

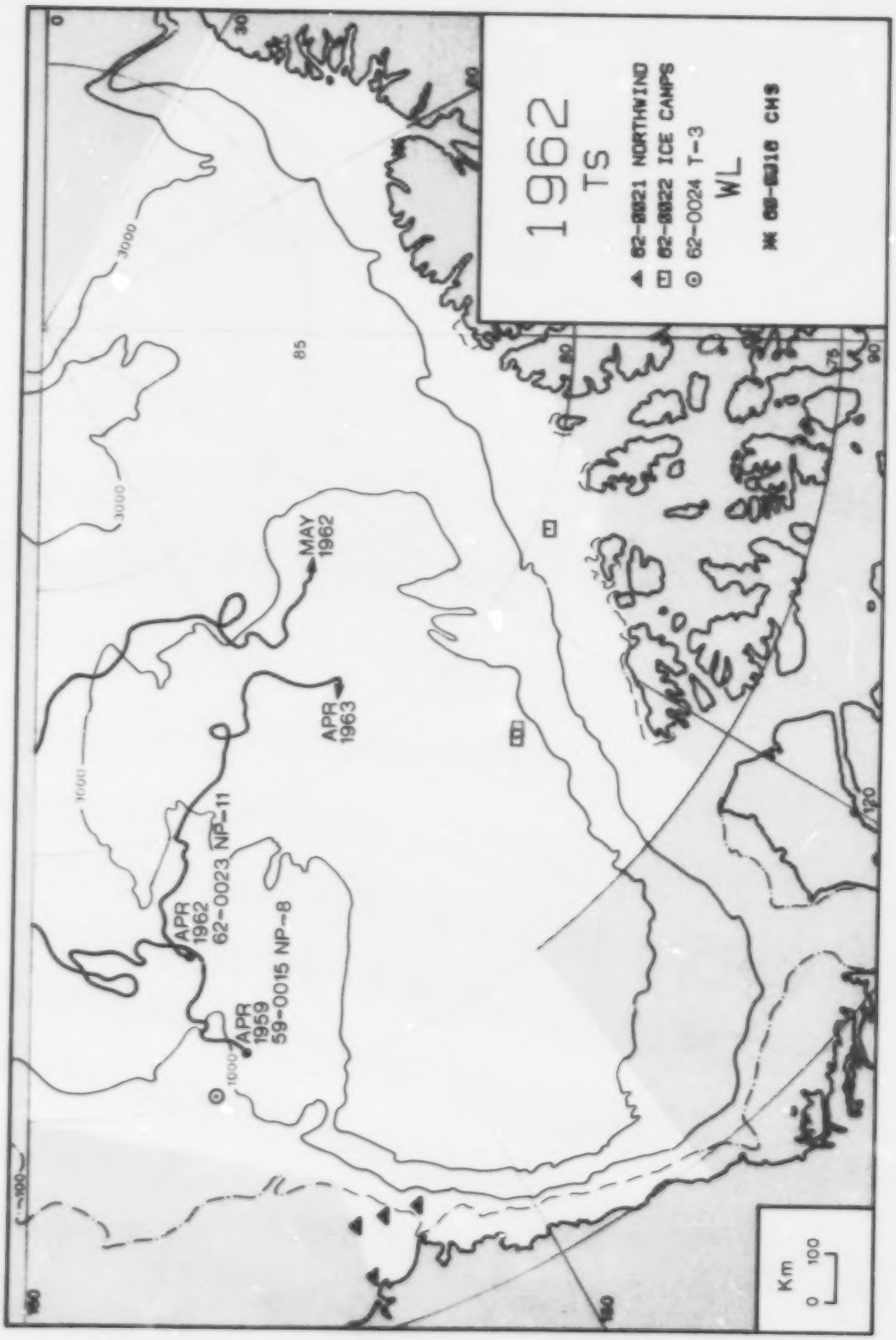
1959
TS
57-0013 NP-7
59-0001 T-3 ICE ISLAND
59-0002 STATEN IS.
59-0014 AIRCRAFT
59-0016 ALPHA-2
APR 1959
57-0013 NP-7
APR. 1959
59-0015 NP-8
3000
1000
Km
0 100

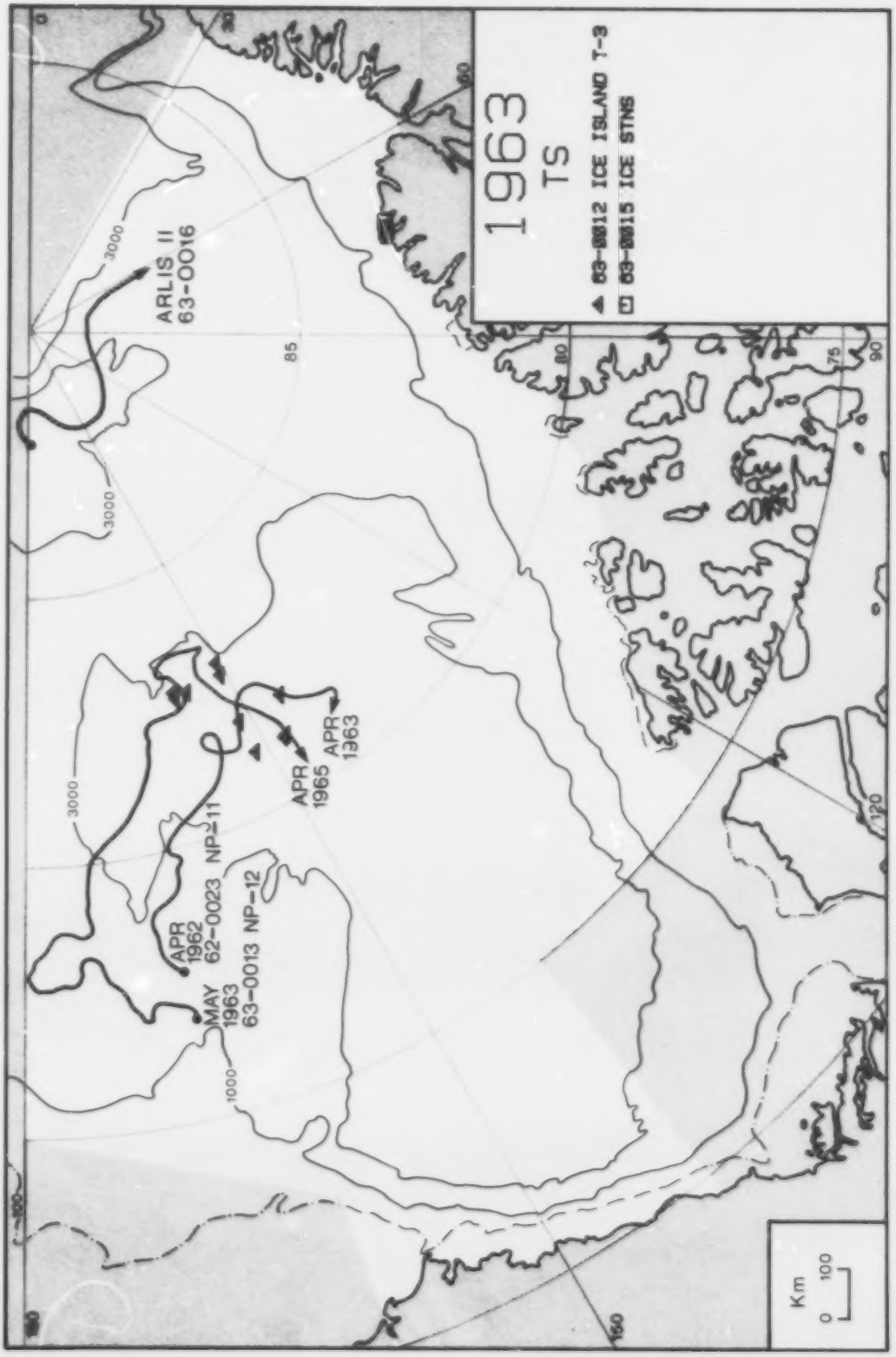

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1959
TS
59-0001 T-3 ICE ISLAND
59-0002 STATEN IS.
59-0014 AIRCRAFT

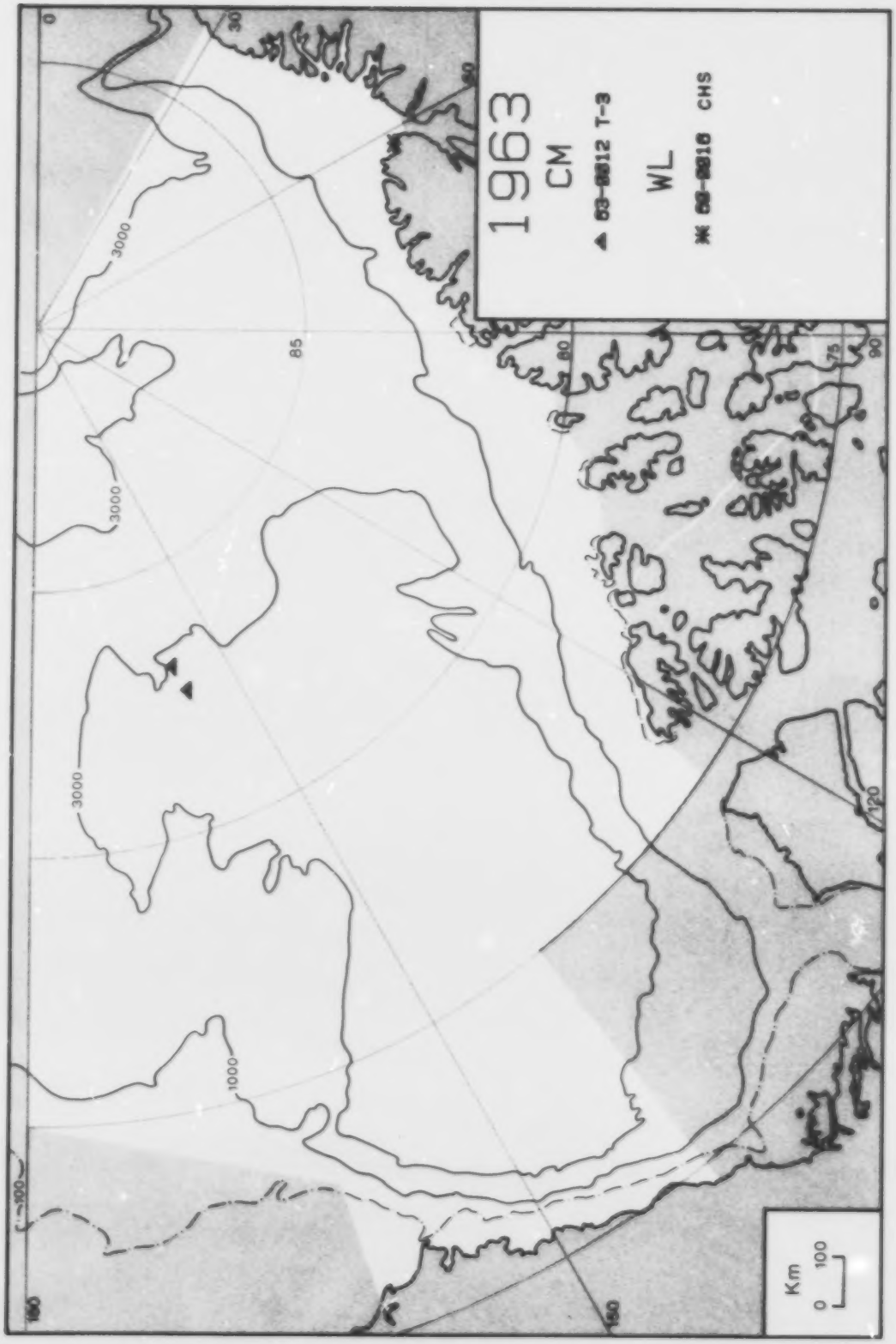

1960
TS
59-0001 T-3 ICE ISLAND
59-0010 CHARLIE-I
00-0001 BURTON IS.
00-0002 NORTHWIND
00-0007 PCSP
60-0013 STATEN IS.
00-0015 ARLIS I
60-0019 AIRCRAFT (U.S.)
WL
60-0016 CHS
MAR
1962
APR
1959
59-0015 NP-8
3000
1000
85
80
75
90
120
150
180
60
30
0
100
Km
0 100

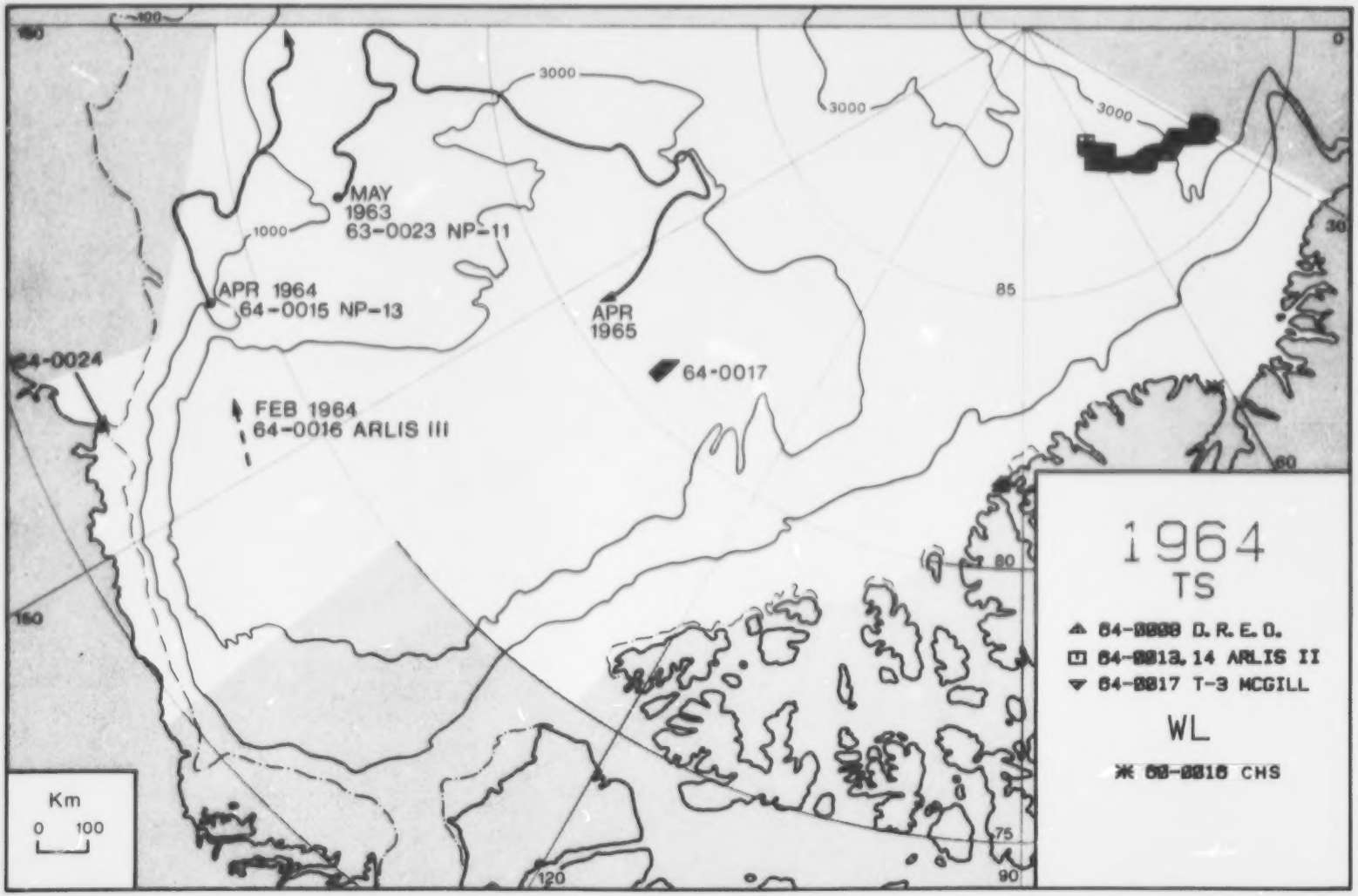

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1960
TS
59-0001 T-3 ICE ISLAND
60-0001 BURTON IS.
60-0002 NORTHWIND
60-0015 ARLIS I
60-0019 U.S. AIRCRAFT
(NOT PLOTTED)


1961
TS
60-0015 ARLIS I
61-0024 STATEN IS.
61-0025 SOVIET ICE STATIONS
WL
60-0016 CHS
61-0027 ARCTIC INSTITUTE
MAY 1961 60-0014 NP-9
MAR 1962
NOV 1961
APR 1959 59-0015 NP-8
MAY 1961 61-0026 ARLIS II
3000
Km
0 100

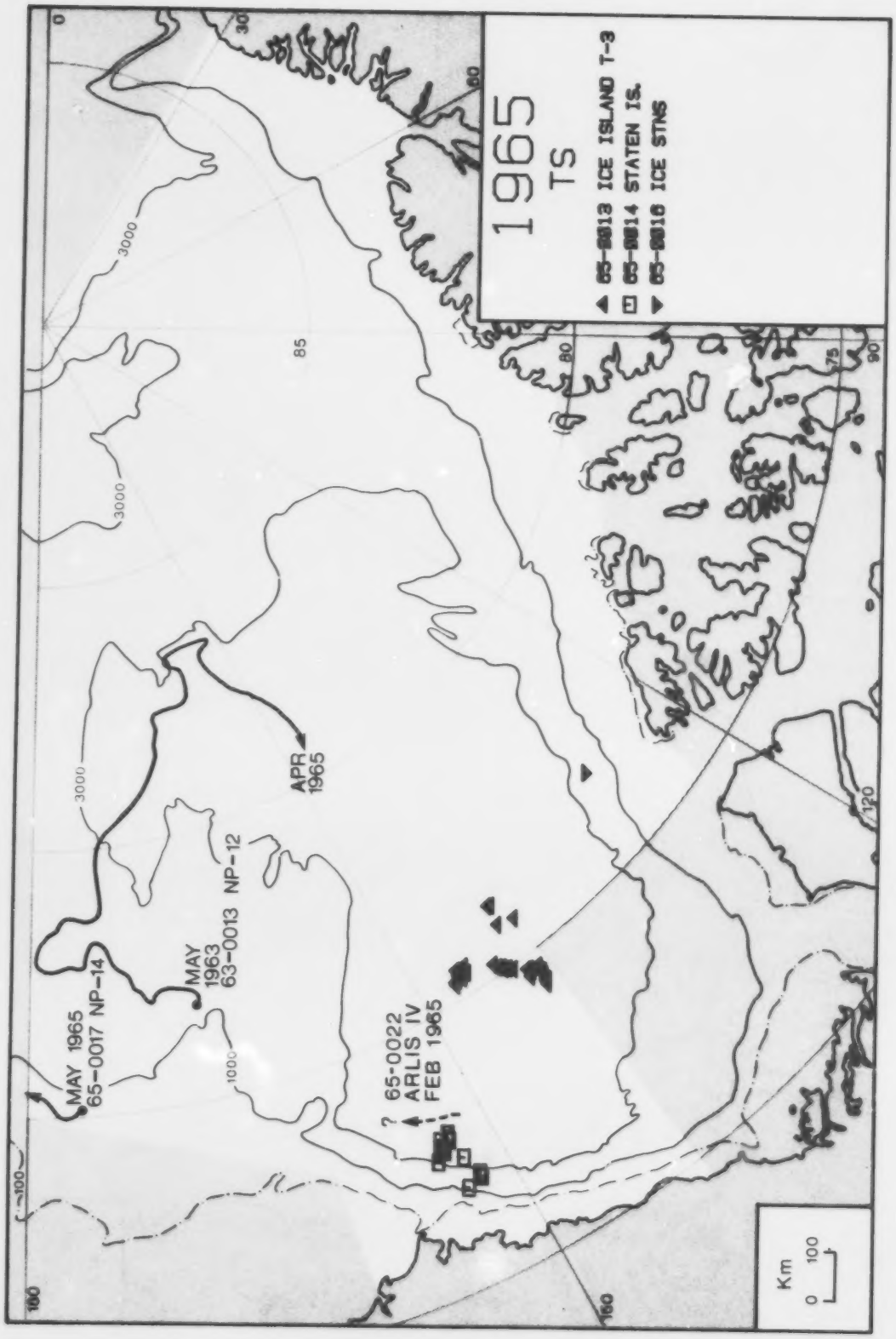

1962
TS
62-0021 NORTHWIND
62-0022 ICE CAMPS
62-0024 T-3
WL
65-6010 CHS
MAY
1962
APR
1963
APR
1962
62-0023 NP-11
APR
1959
59-0015 NP-8
3000
1000
85
Km
0
100

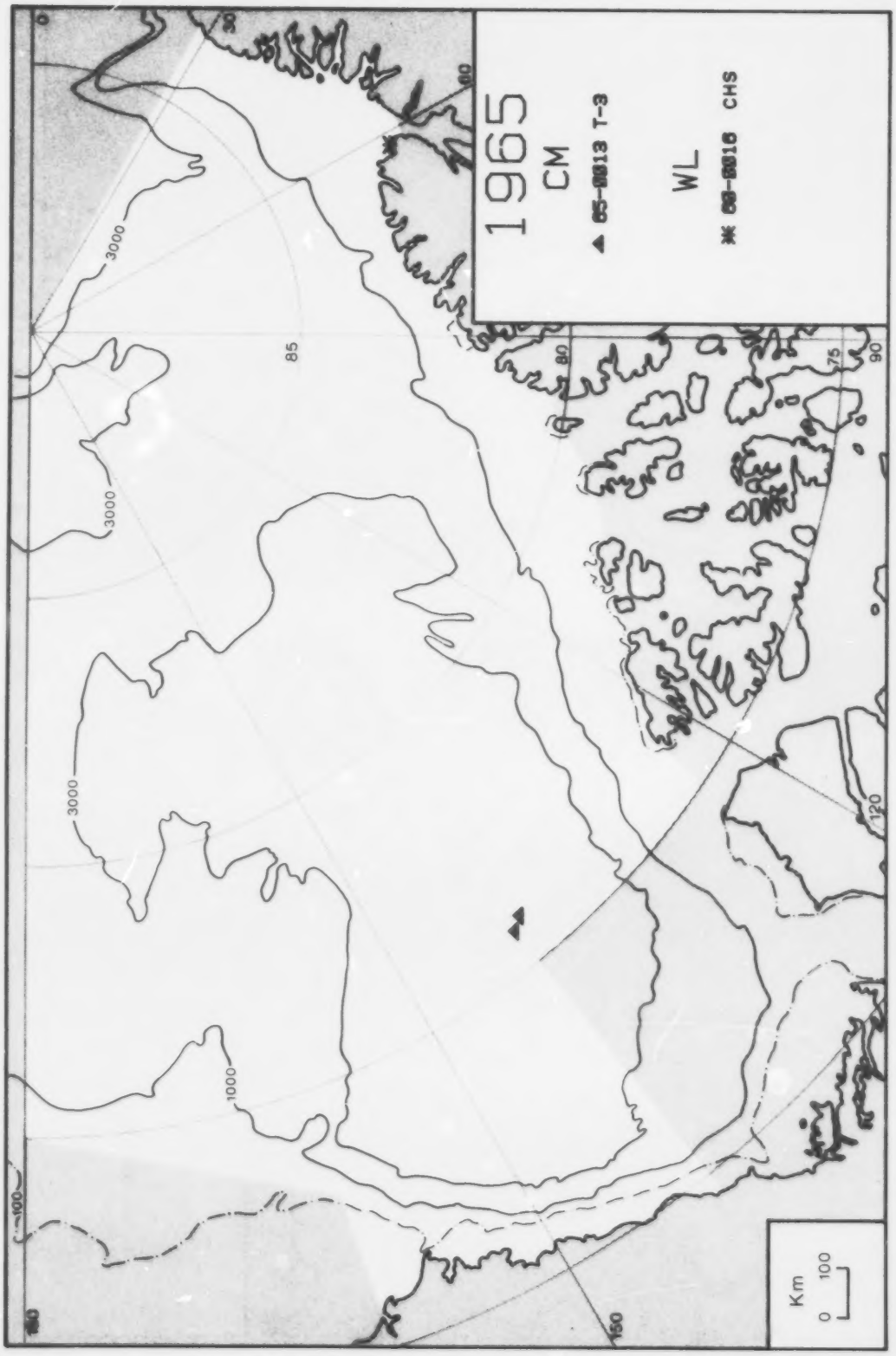

1963
TS
63-0012 ICE ISLAND T-3
63-0015 ICE STNS
ARLIS II
63-0016
APR
1962
62-0023 NP-11
MAY
1963
63-0013 NP-12
APR
1965
APR
1963
3000
1000
85
80
75
90
120
150
180
Km
0 100

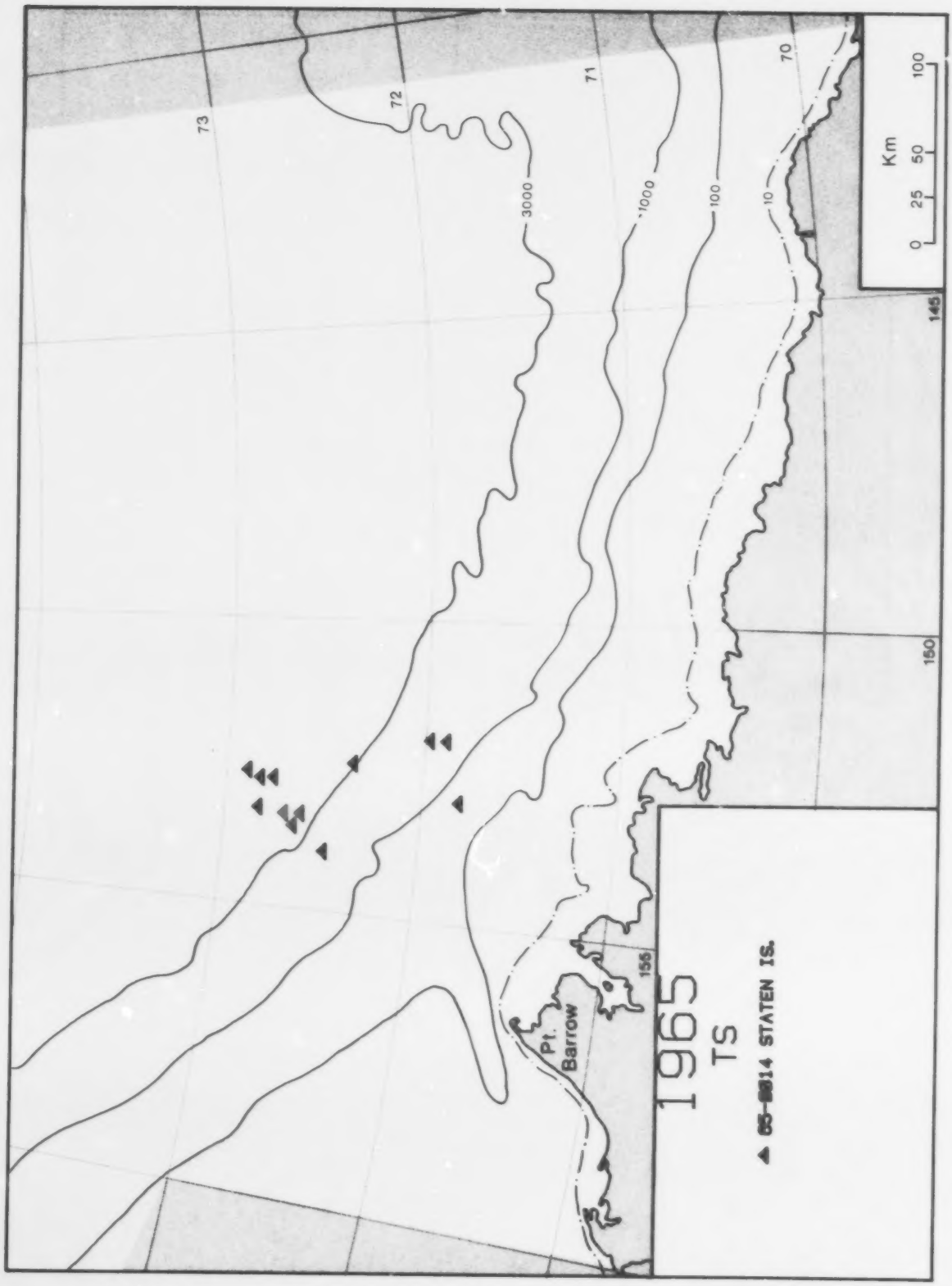

1963
CM
WL
CHS
3000
3000
3000
1000
85
80
75
90
120
150
180
0
30
60
Km
0
100

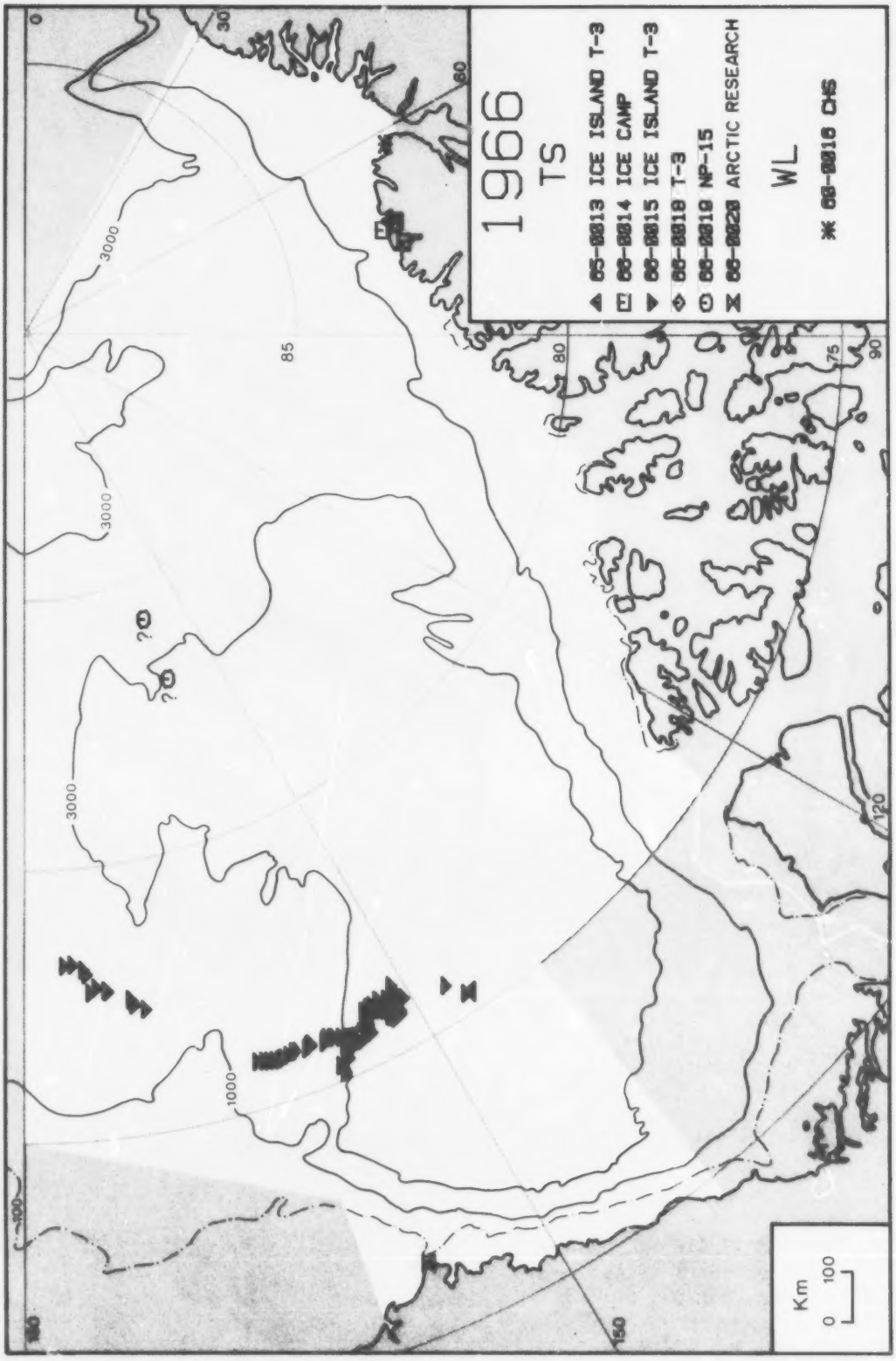


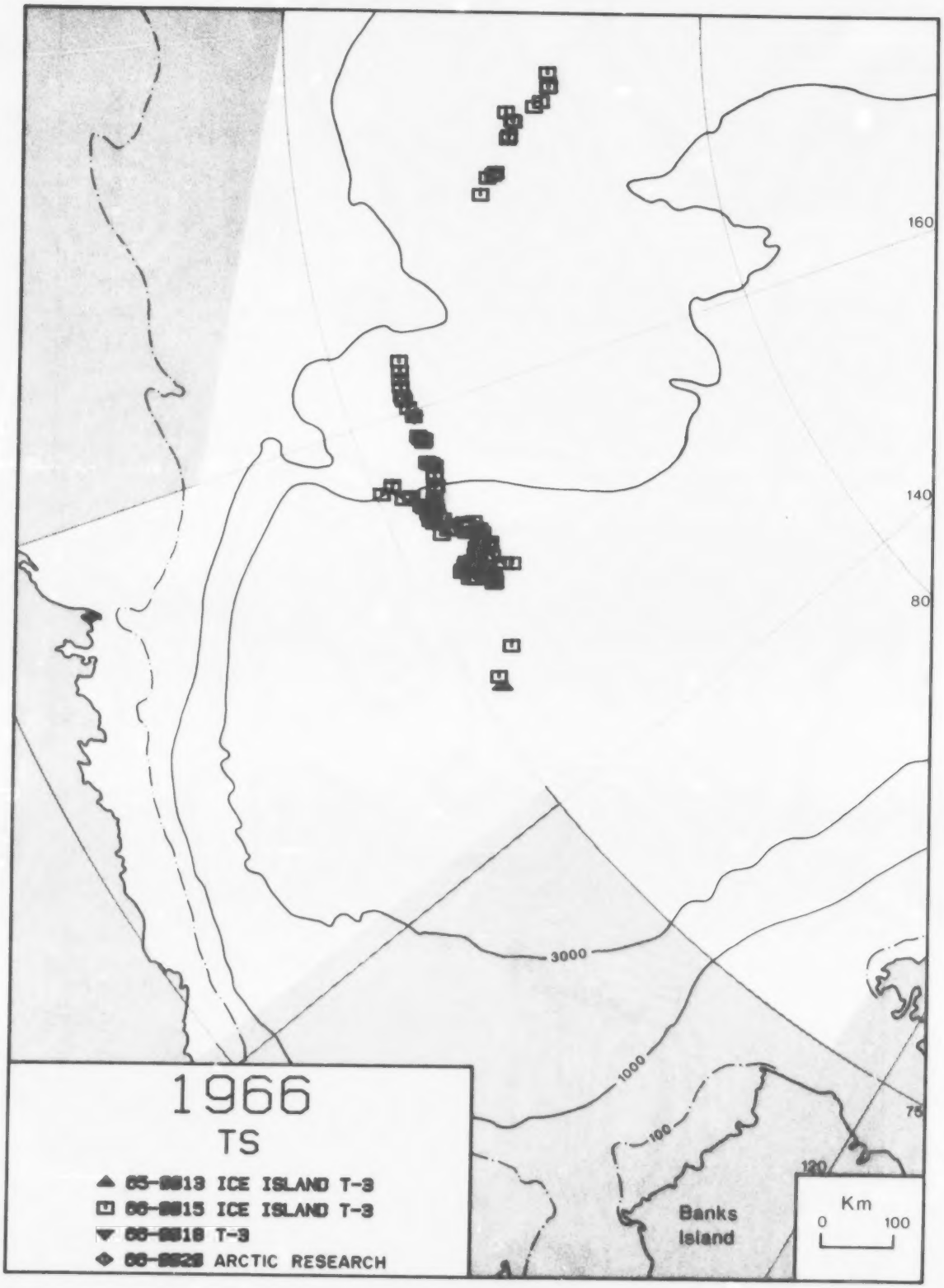
MAY
1963
63-0023 NP-11
APR 1964
64-0015 NP-13
APR
1965
64-0017
64-0024
FEB 1964
64-0016 ARLIS III
3000
1000
85
80
75
90
120
150
0
30
60
Km
0 100
1964
TS
64-0008 D.R.E.O.
64-0013, 14 ARLIS II
64-0017 T-3 MCGILL
WL
60-0016 CHS

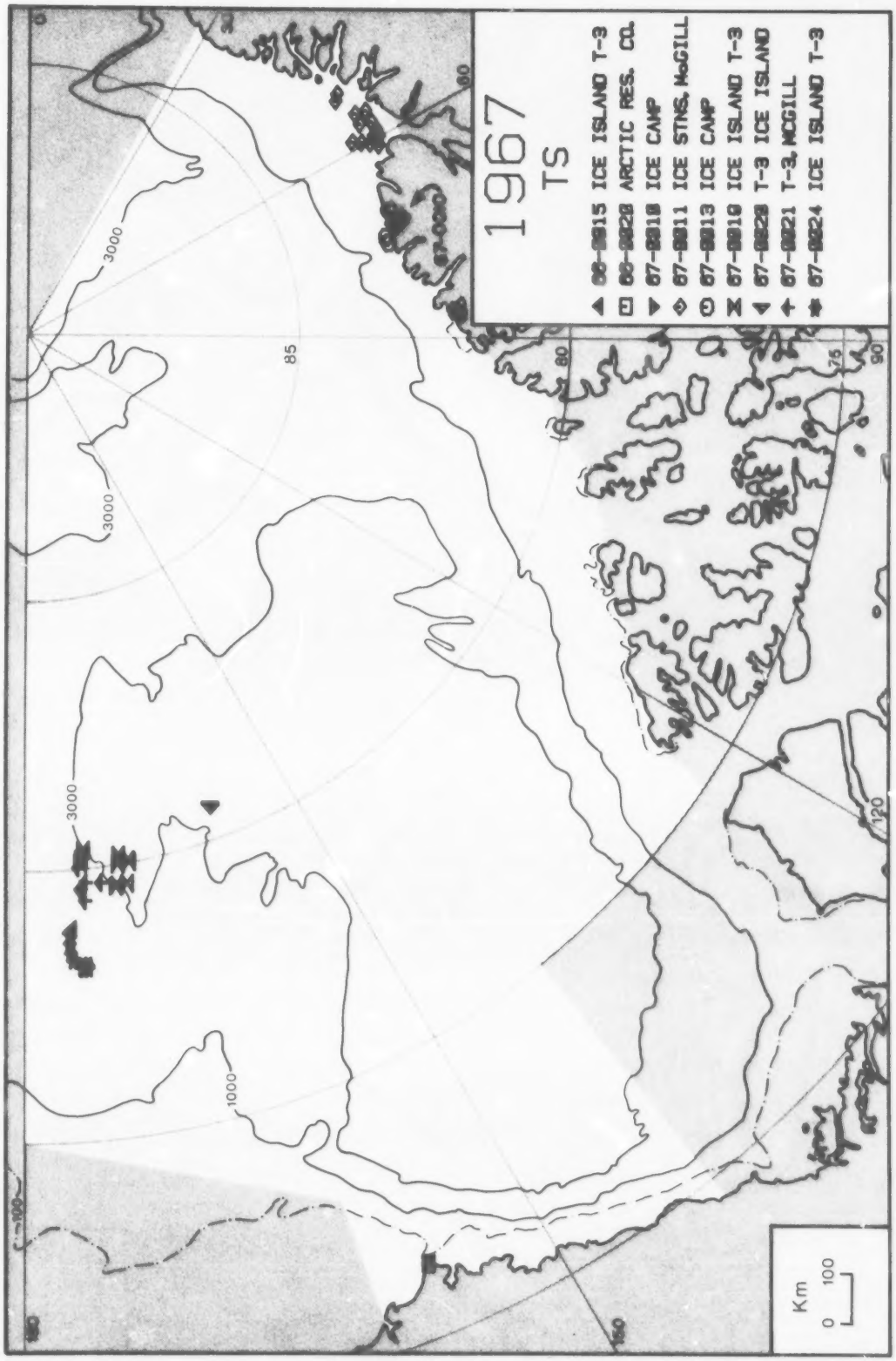

1965
TS
65-0013 ICE ISLAND T-3
65-0014 STATEN IS.
65-0016 ICE STNS
MAY 1965
65-0017 NP-14
MAY
1963
63-0013 NP-12
APR
1965
? 65-0022
ARLIS IV
FEB 1965
3000
1000
85
Km
0
100

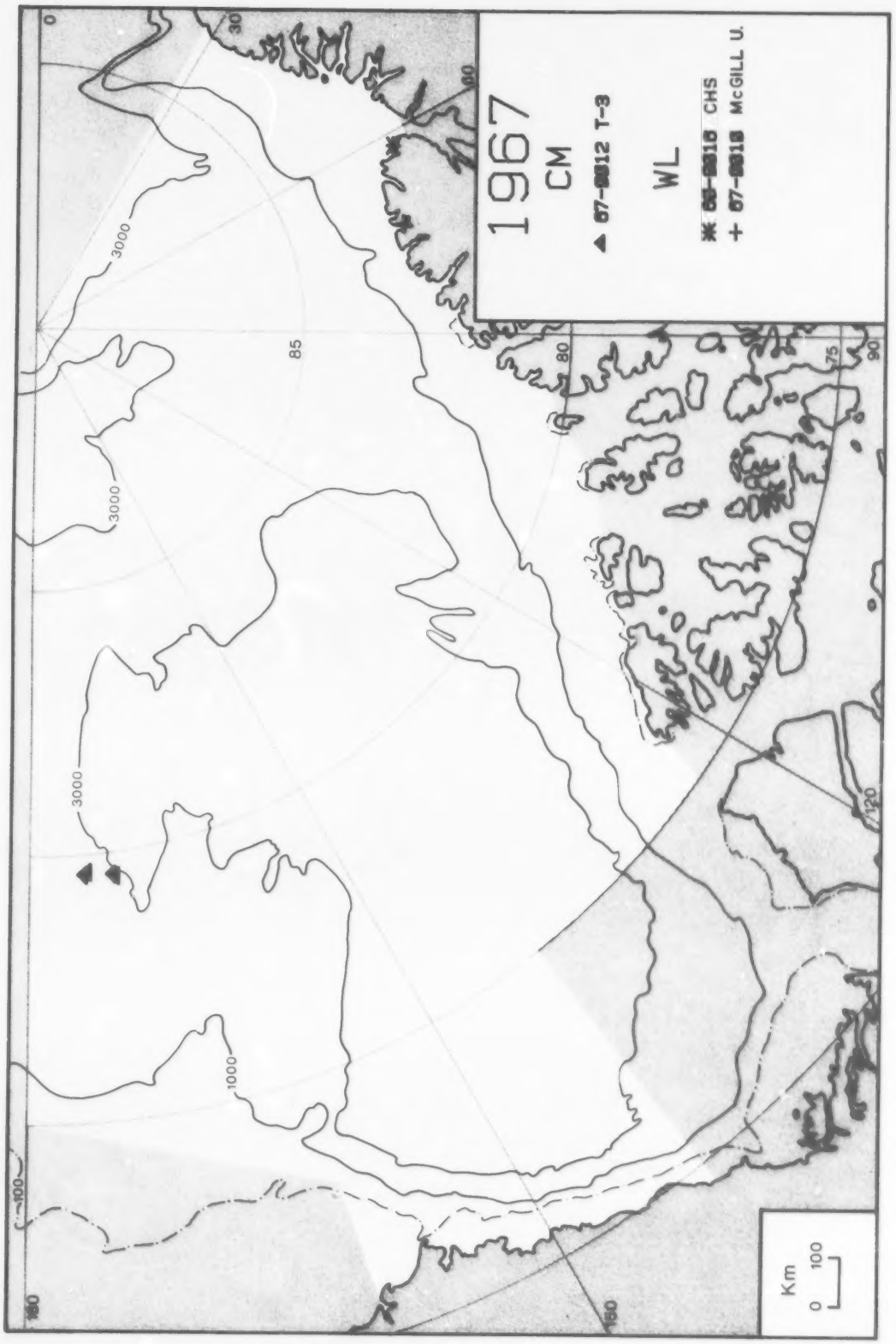

1965
CM
WL
CHS
3000
3000
3000
1000
85
80
75
90
120
150
Km
0
100


73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1965
TS
▲ 65-6814 STATEN IS.

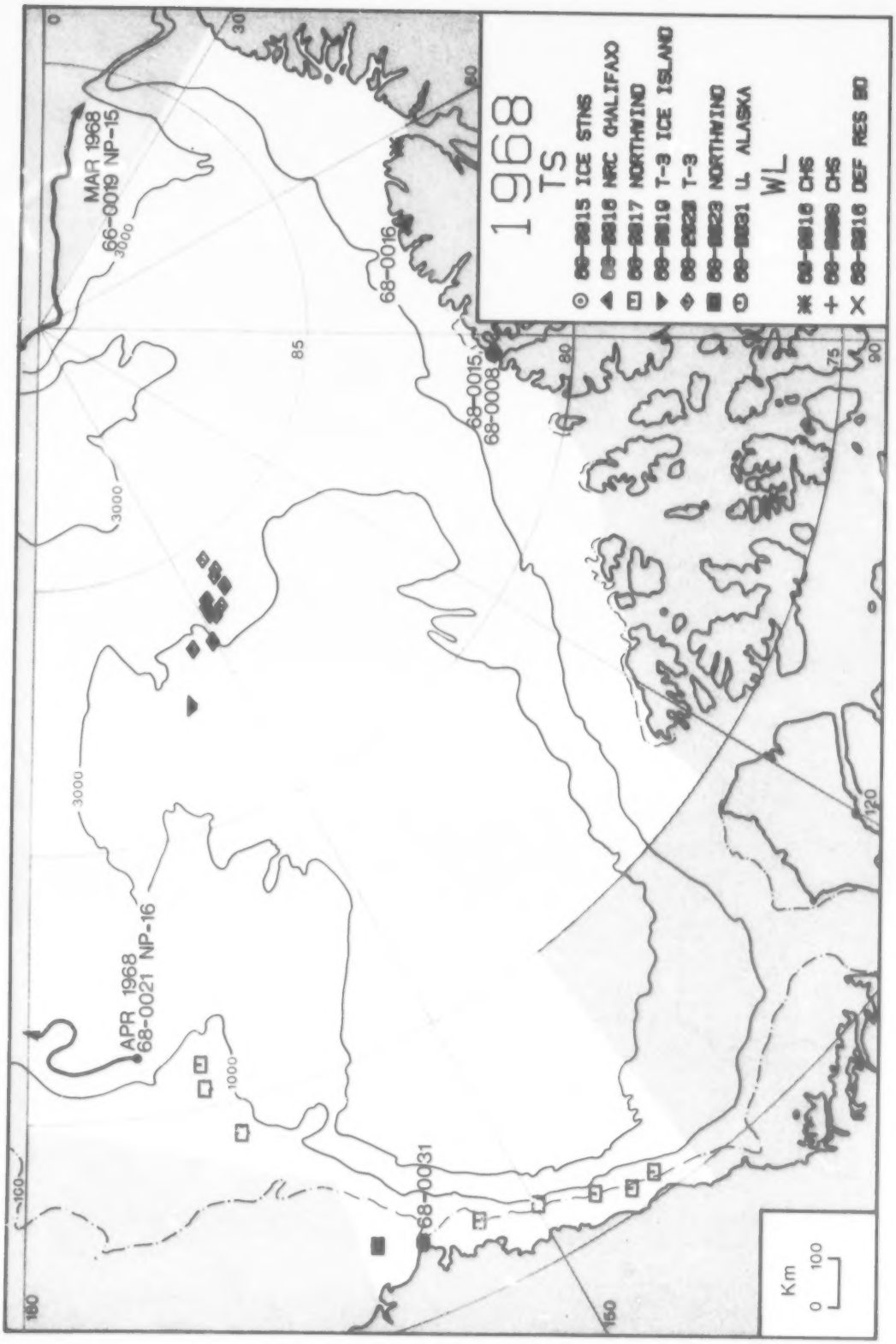

1966
TS
65-0013 ICE ISLAND T-3
66-0014 ICE CAMP
66-0015 ICE ISLAND T-3
66-0018 T-3
66-0019 NP-15
66-0020 ARCTIC RESEARCH
WL
60-0016 CHS
Km
0
100
3000
1000
85
80
75
90
120
150
100
30
60


160
140
80
3000
1000
100
75
120
Banks
Island
Km
0
100
1966
TS
ICE ISLAND T-3
ICE ISLAND T-3
T-3
ARCTIC RESEARCH

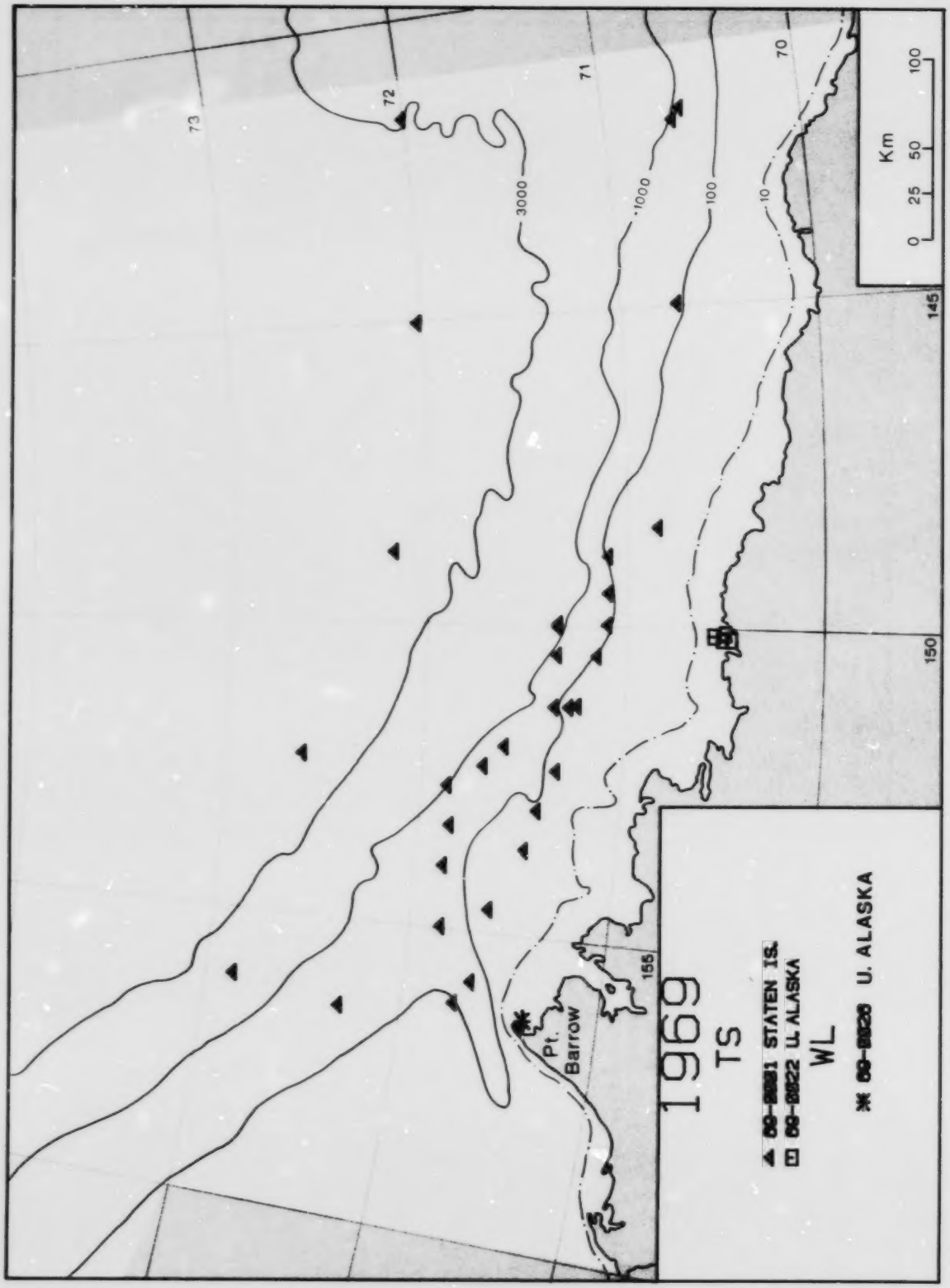

1967
TS
66-0015 ICE ISLAND T-3
66-0020 ARCTIC RES. CO.
67-0010 ICE CAMP
67-0011 ICE STNS, McGILL
67-0013 ICE CAMP
67-0019 ICE ISLAND T-3
67-0020 T-3 ICE ISLAND
67-0021 T-3, MCGILL
67-0024 ICE ISLAND T-3
3000
3000
3000
1000
85
80
75
90
120
Km
0
100

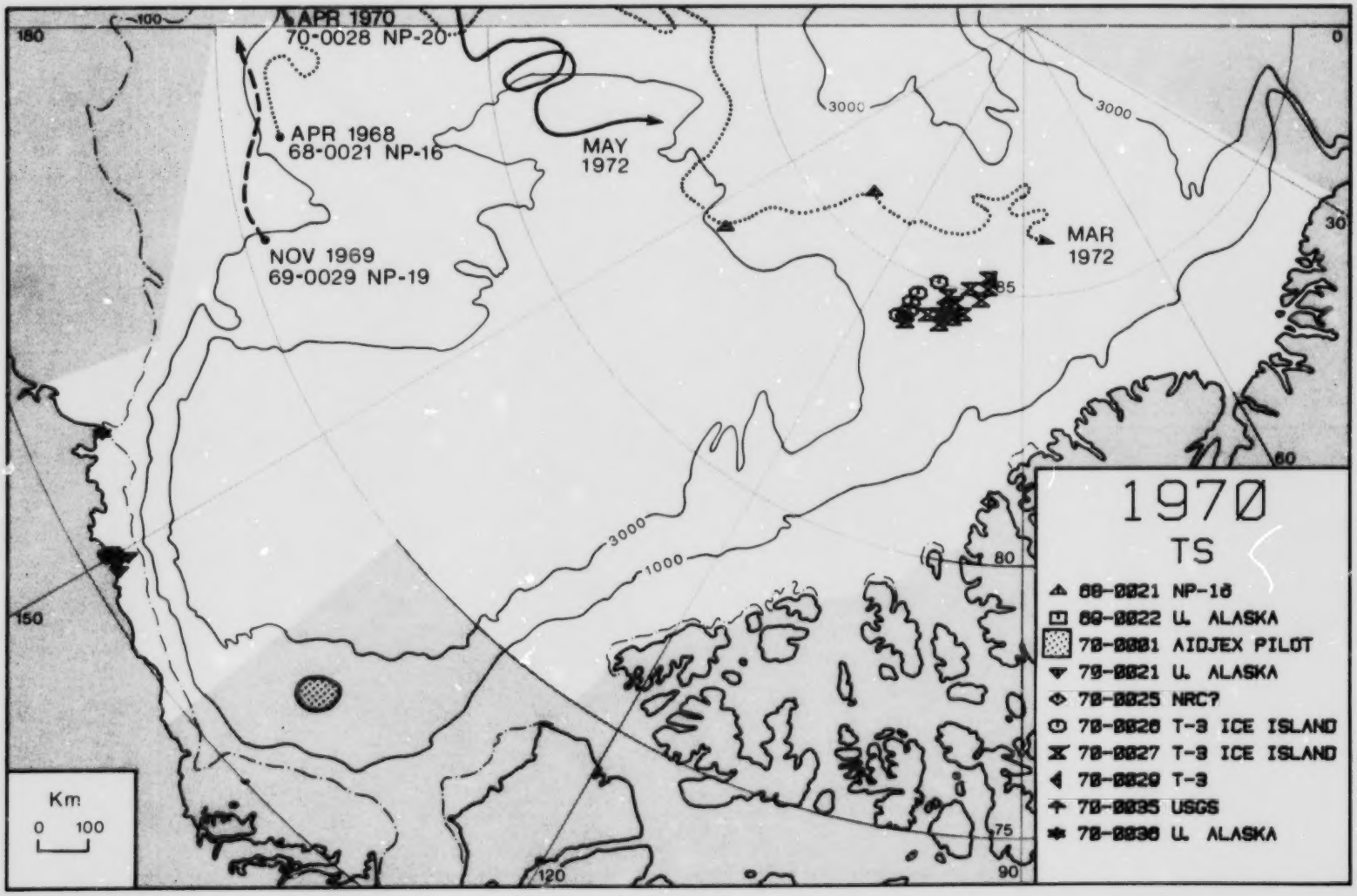

1967
CM
▲ 67-0012 T-3
WL
✱ 65-0010 CHS
+ 67-0010 McGILL U.
0
30
60
85
80
75
90
120
150
180
100
1000
3000
3000
3000
Km
0 100

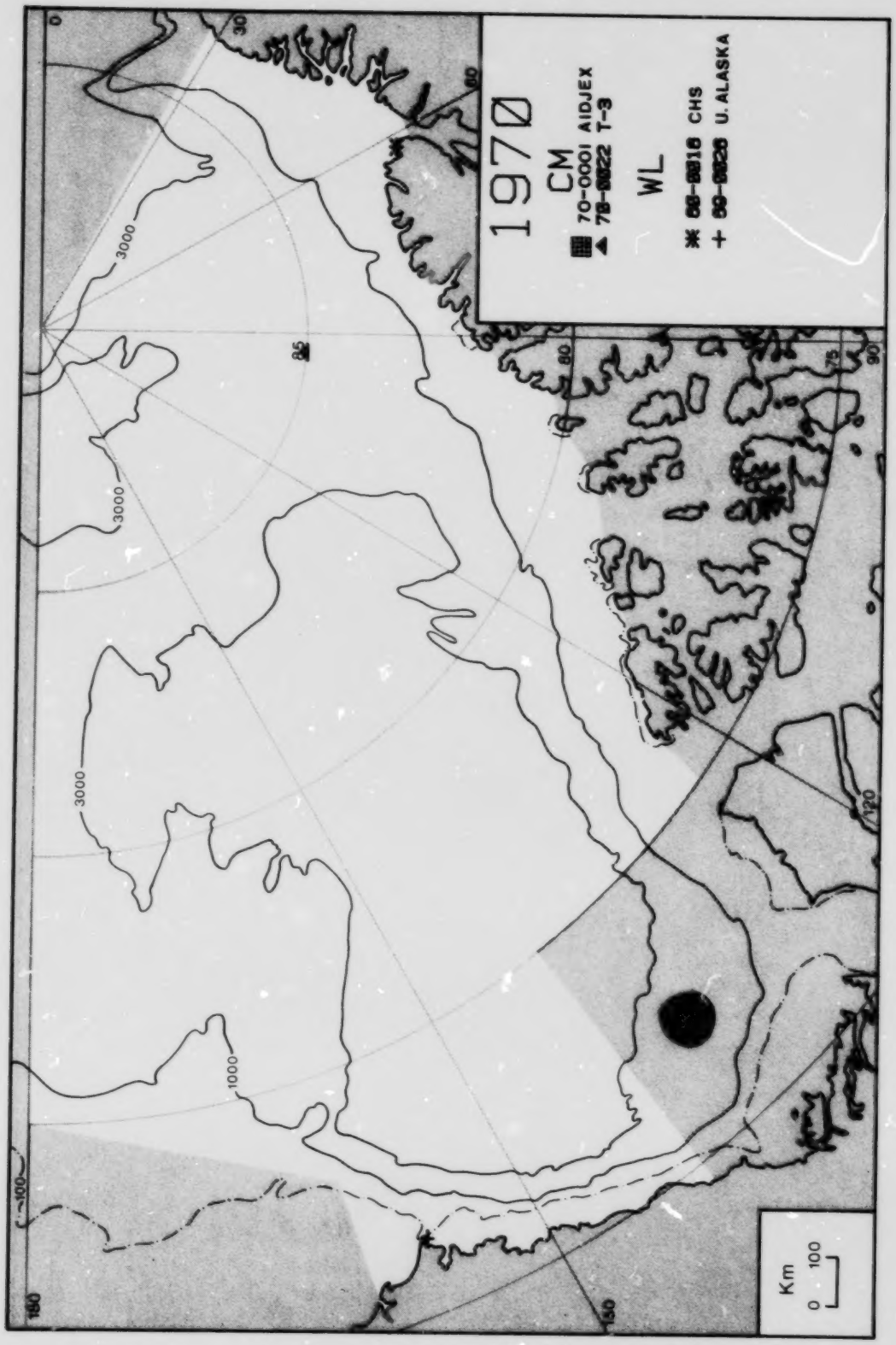
Km
0
100
1967
TS
67-0010 McGILL UNIV.
67-0011 McGILL UNIV.
67-0013 DEF. RES. BD.
67-0020 T-3 ICE ISLAND
Ellesmere Island
3000
3000
3000
1000
85
80
90
100
120
150

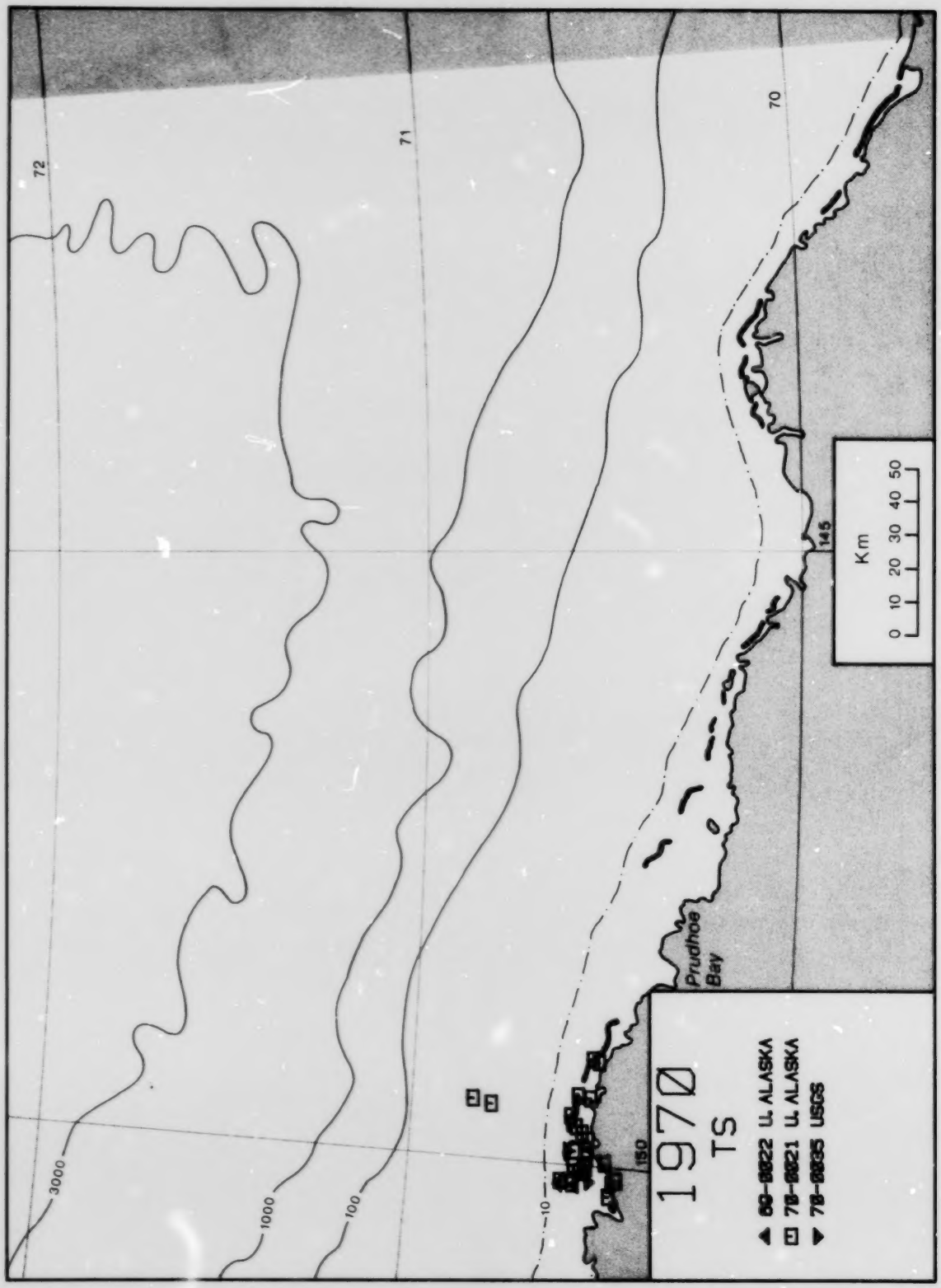

1968
TS
ICE STNS
NRC CHALIFAXO
NORTHWIND
T-3 ICE ISLAND
T-3
NORTHWIND
U. ALASKA
WL
CHS
CHS
DEF RES BD
MAR 1968
66-0019 NP-15
APR 1968
68-0021 NP-16
68-0016
68-0015
68-0008
68-0031
3000
1000
85
80
75
90
120
150
180
Km
0
100

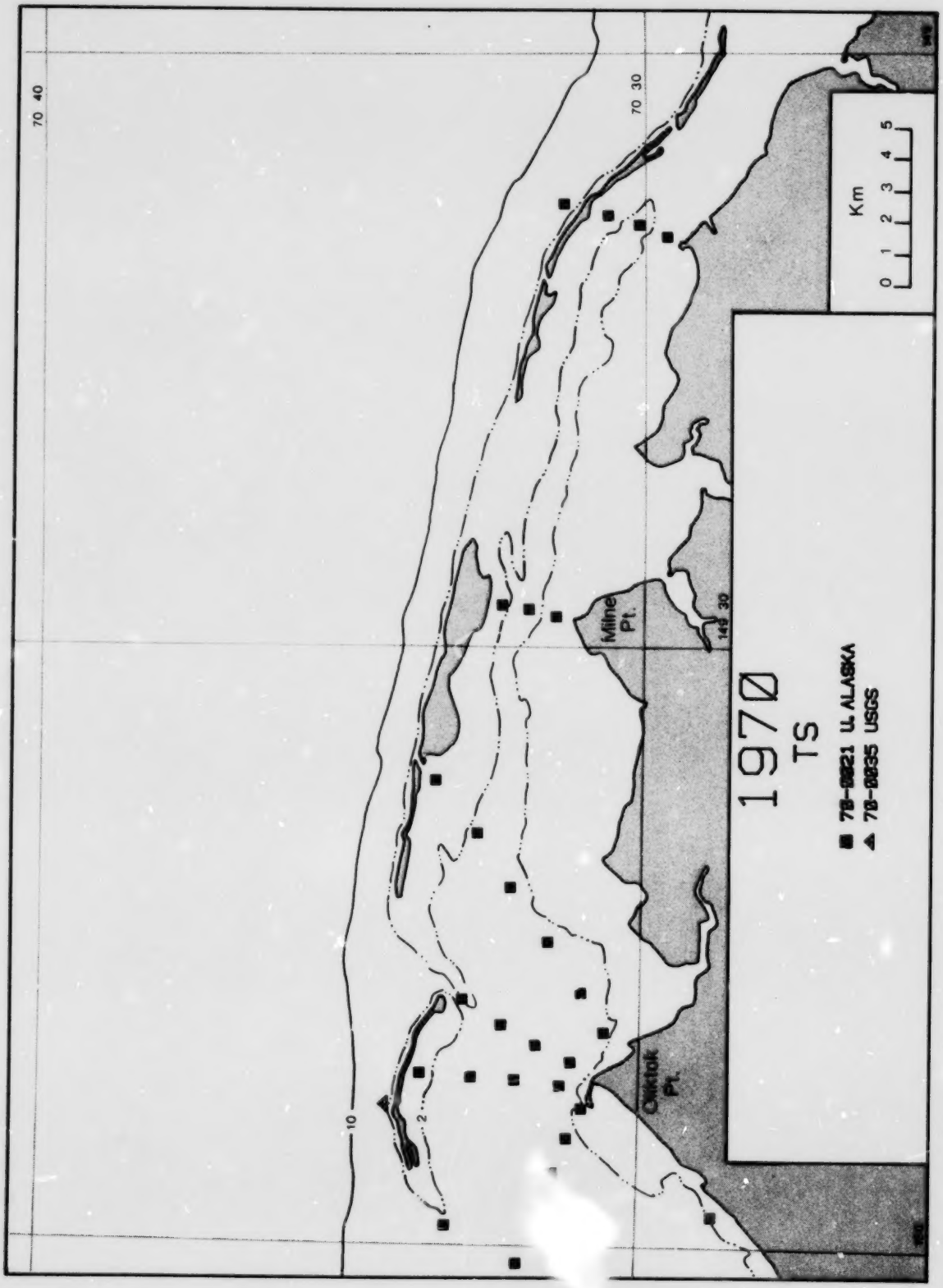
1969
TS
69-0001 STATEN IS.
69-0021 ICE STNS, NRC
69-0022 U. ALASKA
69-0024 T-3 ICE ISLAND
69-0025 T-3 ICE ISLAND
69-0028 T-3
WL
69-0016 CHS
69-0026 U. ALASKA
NOT PLOTTED
69-0027 T-3 ICE ISLAND
MAR
1972
APR 1968
68-0021 NP-16
NOV 1969
69-0029 NP-19
3000
Km
0
100

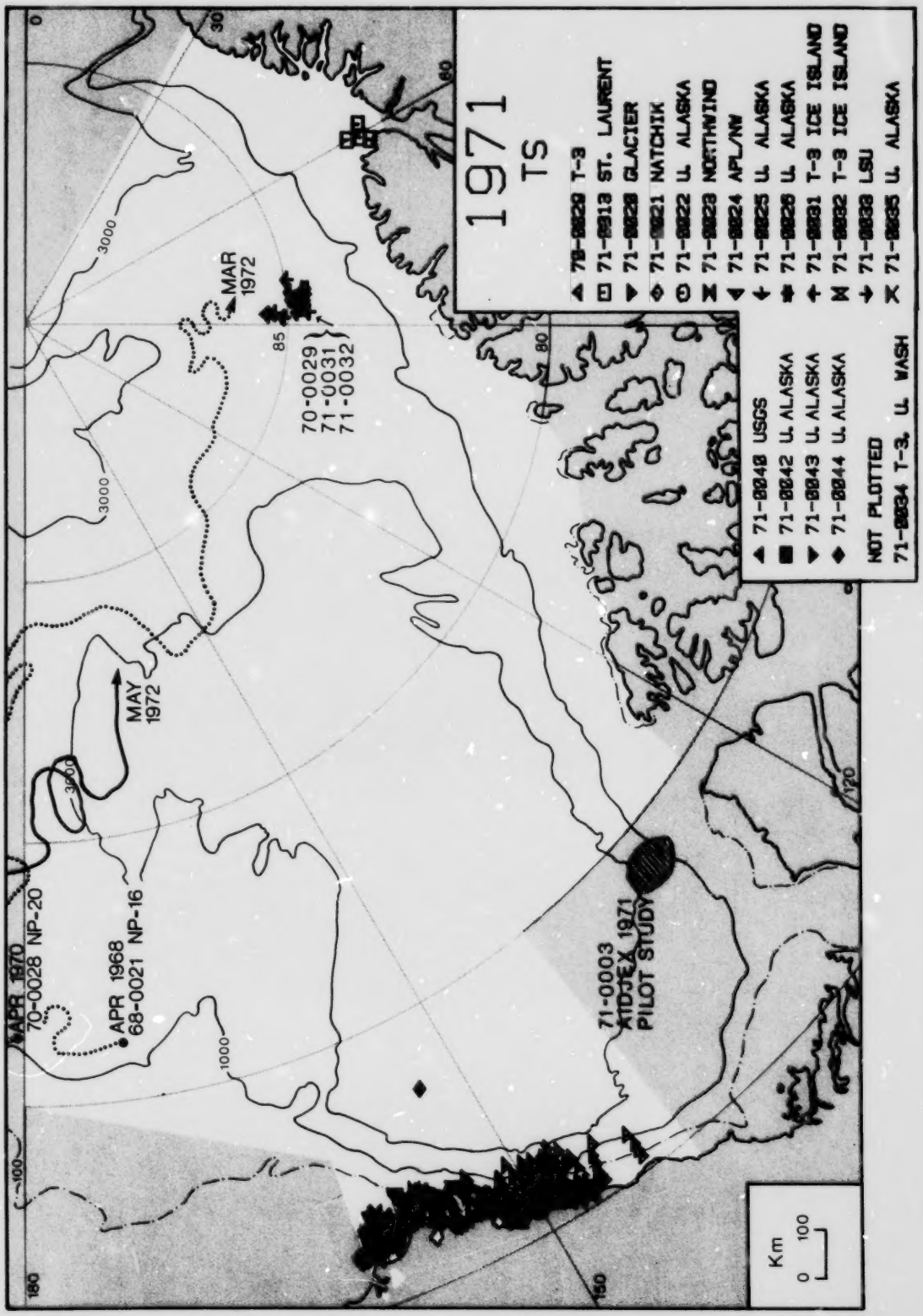

73
72
71
70
3000
1000
100
10
Km
0 25 50 100
145
150
155
Pt. Barrow
1969
TS
WL
U. ALASKA

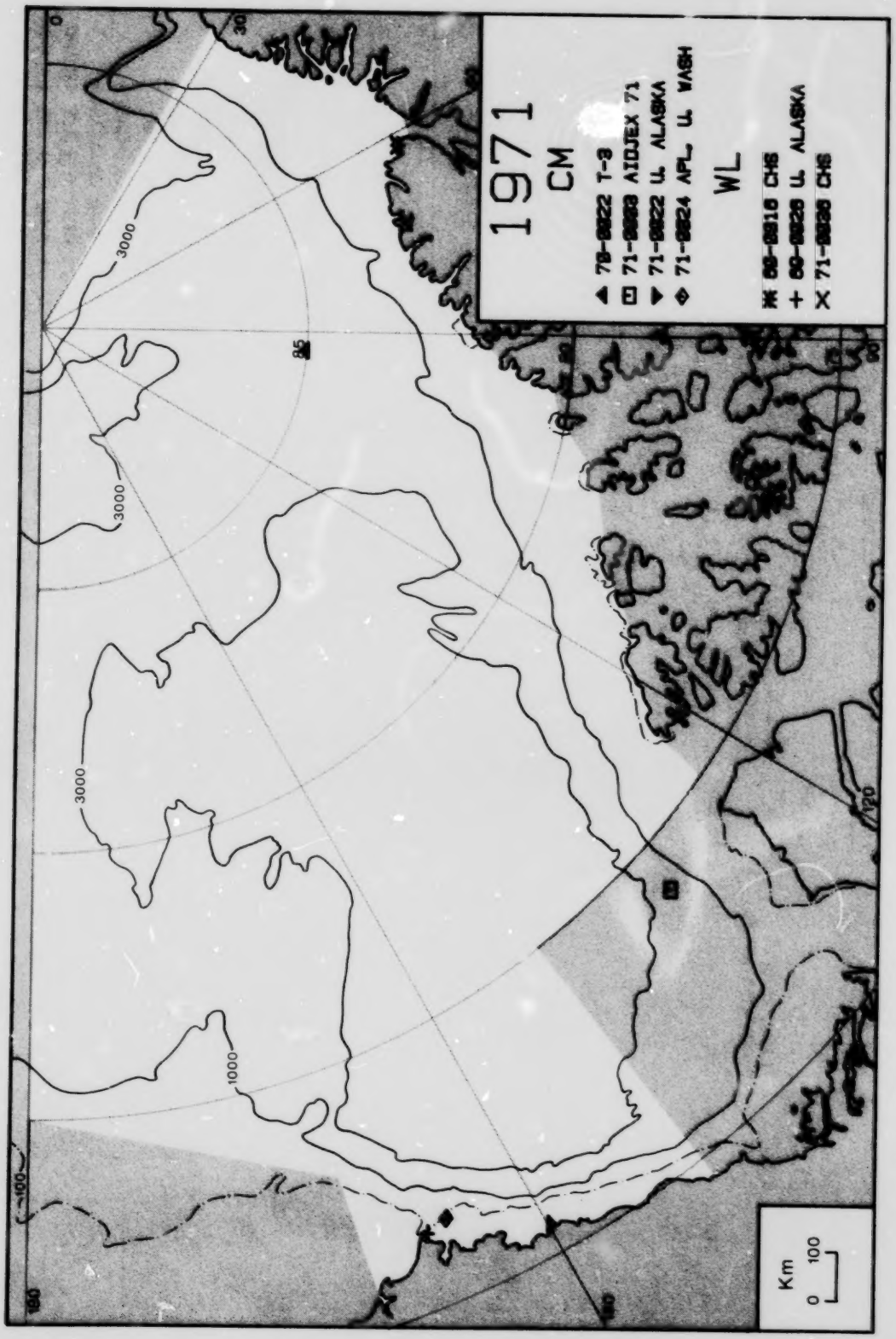

APR 1970
70-0028 NP-20
APR 1968
68-0021 NP-16
NOV 1969
69-0029 NP-19
MAY
1972
MAR
1972
3000
1000
100
180
150
120
90
75
80
85
60
30
0
Km
0 100
1970
TS
68-0021 NP-16
68-0022 U. ALASKA
70-0001 AIDJEX PILOT
70-0021 U. ALASKA
70-0025 NRC?
70-0026 T-3 ICE ISLAND
70-0027 T-3 ICE ISLAND
70-0029 T-3
70-0035 USGS
70-0036 U. ALASKA

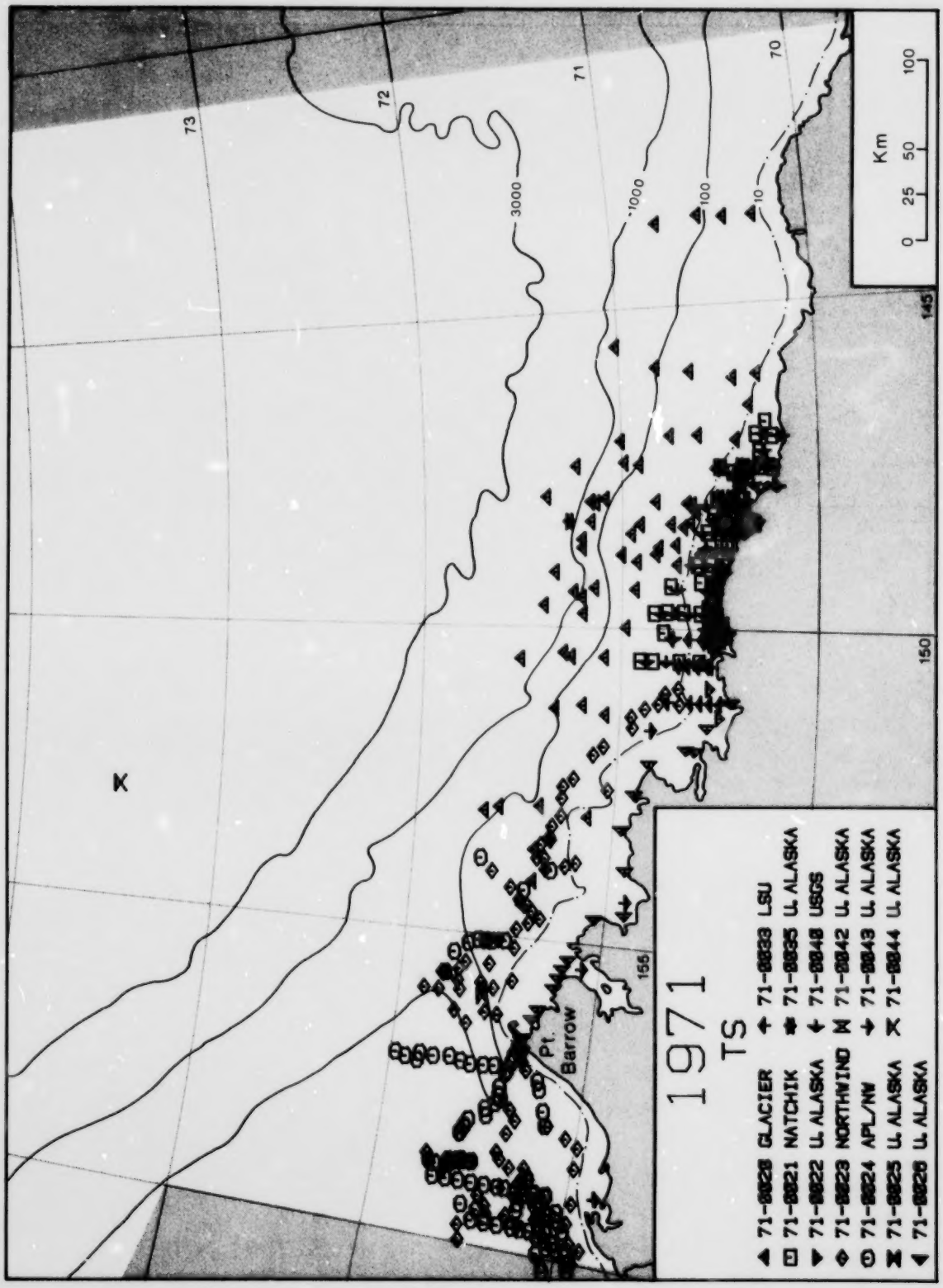

1970
CM
70-0001 AIDJEX
70-0022 T-3
WL
CHS
U. ALASKA
3000
1000
Km
0
100

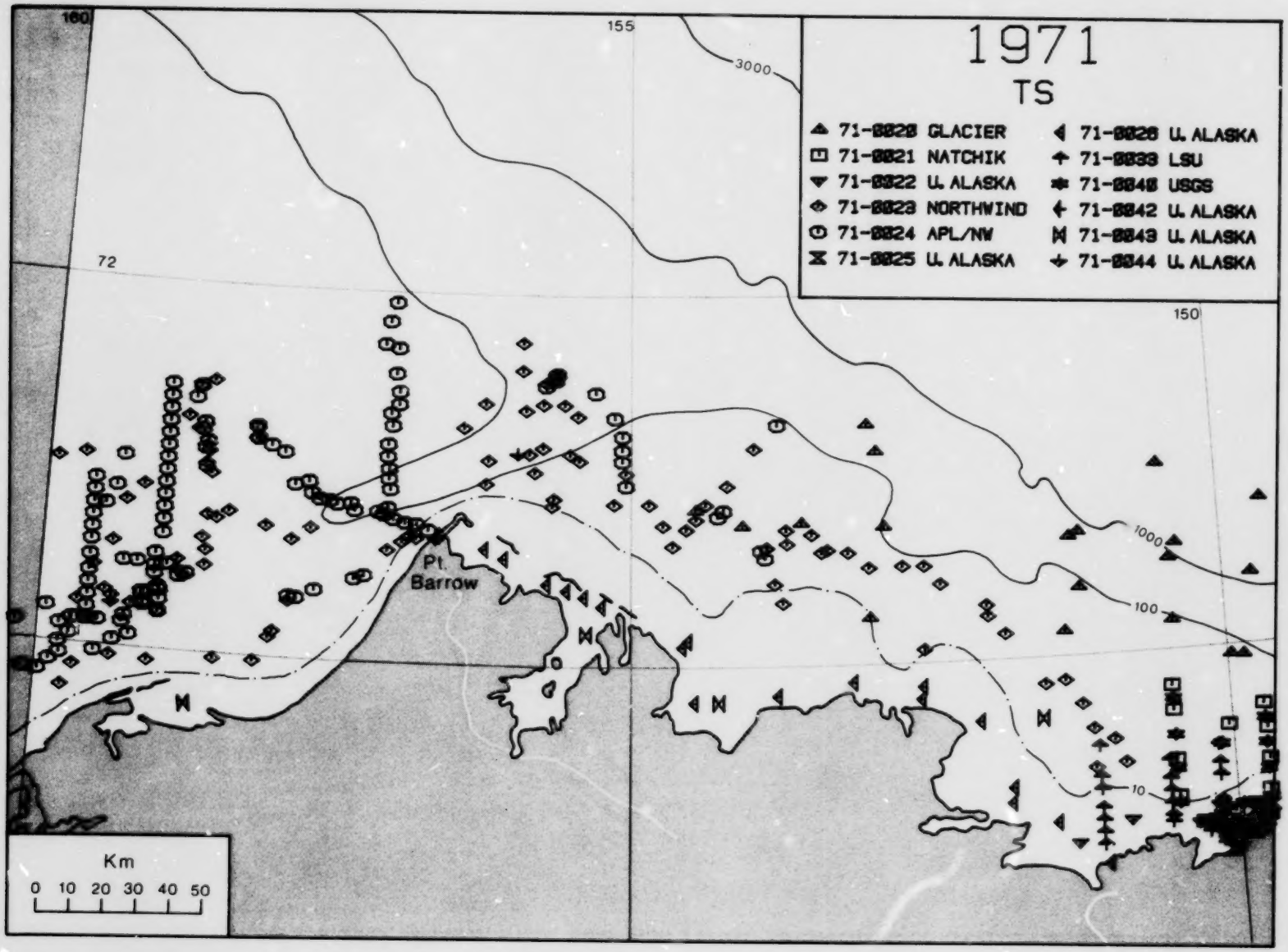

72
71
70
3000
1000
100
10
150
145
Prudhoe Bay
Km
0 10 20 30 40 50
1970
TS
80-8822 U. ALASKA
78-8821 U. ALASKA
78-8835 USGS

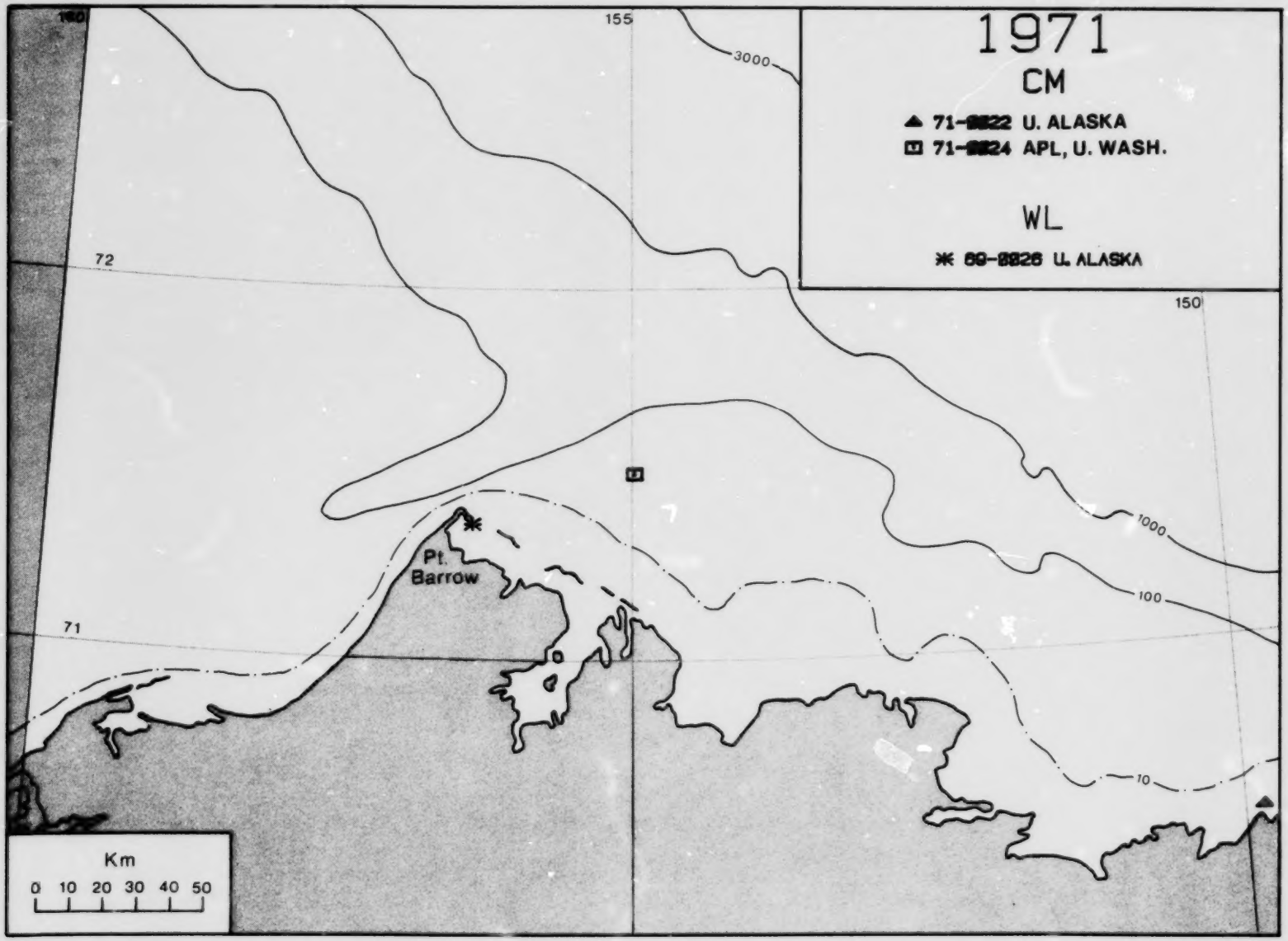

1970
TS
■ 70-0021 U. ALASKA
▲ 70-0035 USGS
Km
0 1 2 3 4 5
Milne Pt.
Oliktok Pt.
70 40
70 30
149 30
10
2

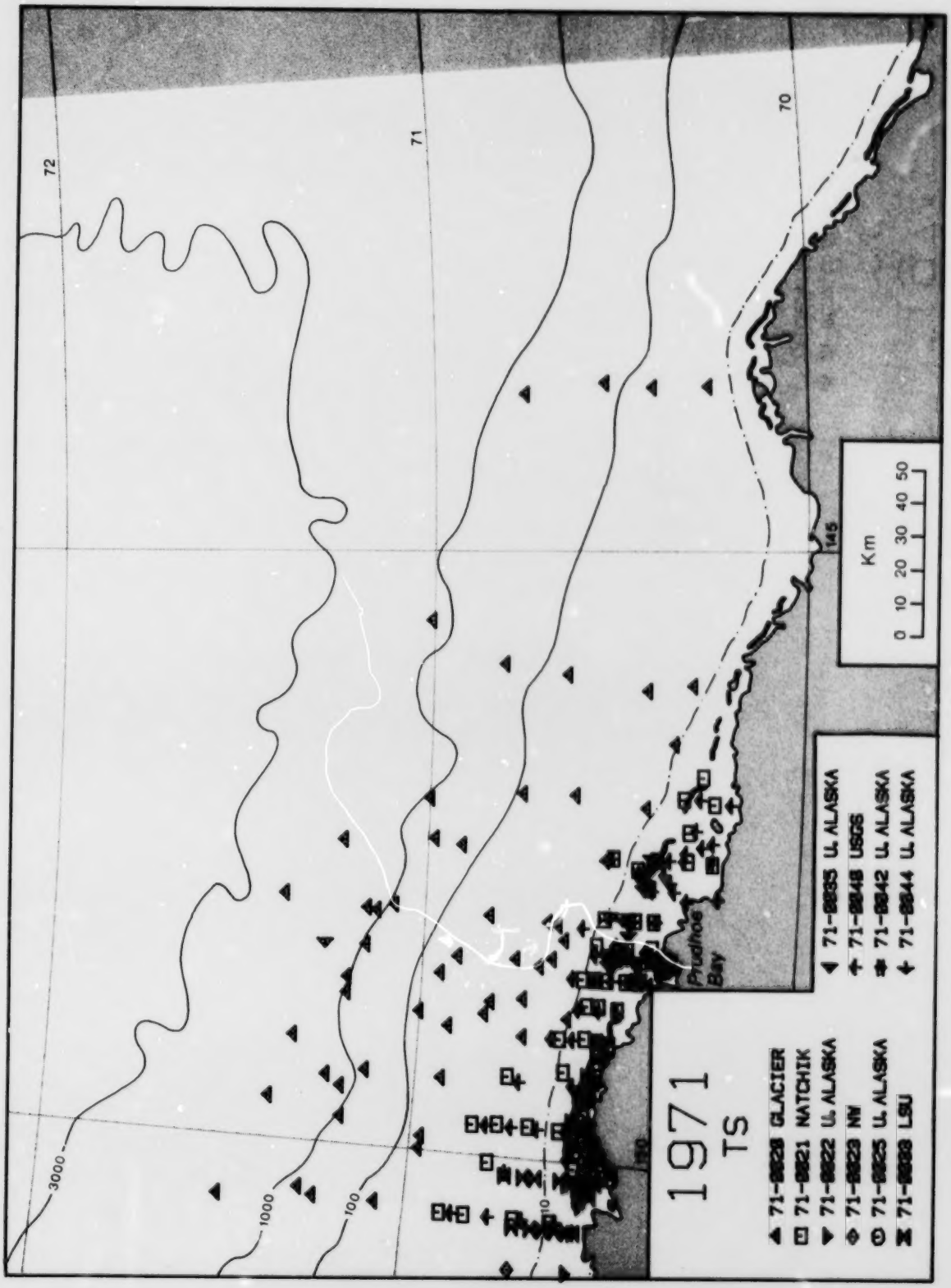

1971
TS
70-0029 T-3
71-0013 ST. LAURENT
71-0020 GLACIER
71-0021 NATCHIK
71-0022 U. ALASKA
71-0023 NORTHWIND
71-0024 APL/NW
71-0025 U. ALASKA
71-0026 U. ALASKA
71-0031 T-3 ICE ISLAND
71-0032 T-3 ICE ISLAND
71-0033 LSU
71-0035 U. ALASKA
71-0040 USGS
71-0042 U. ALASKA
71-0043 U. ALASKA
71-0044 U. ALASKA
NOT PLOTTED
71-0034 T-3, U. WASH
APR 1970
70-0028 NP-20
APR 1968
68-0021 NP-16
MAY
1972
MAR
1972
70-0029
71-0031
71-0032
71-0003
AIDJEX 1971
PILOT STUDY
Km
0 100

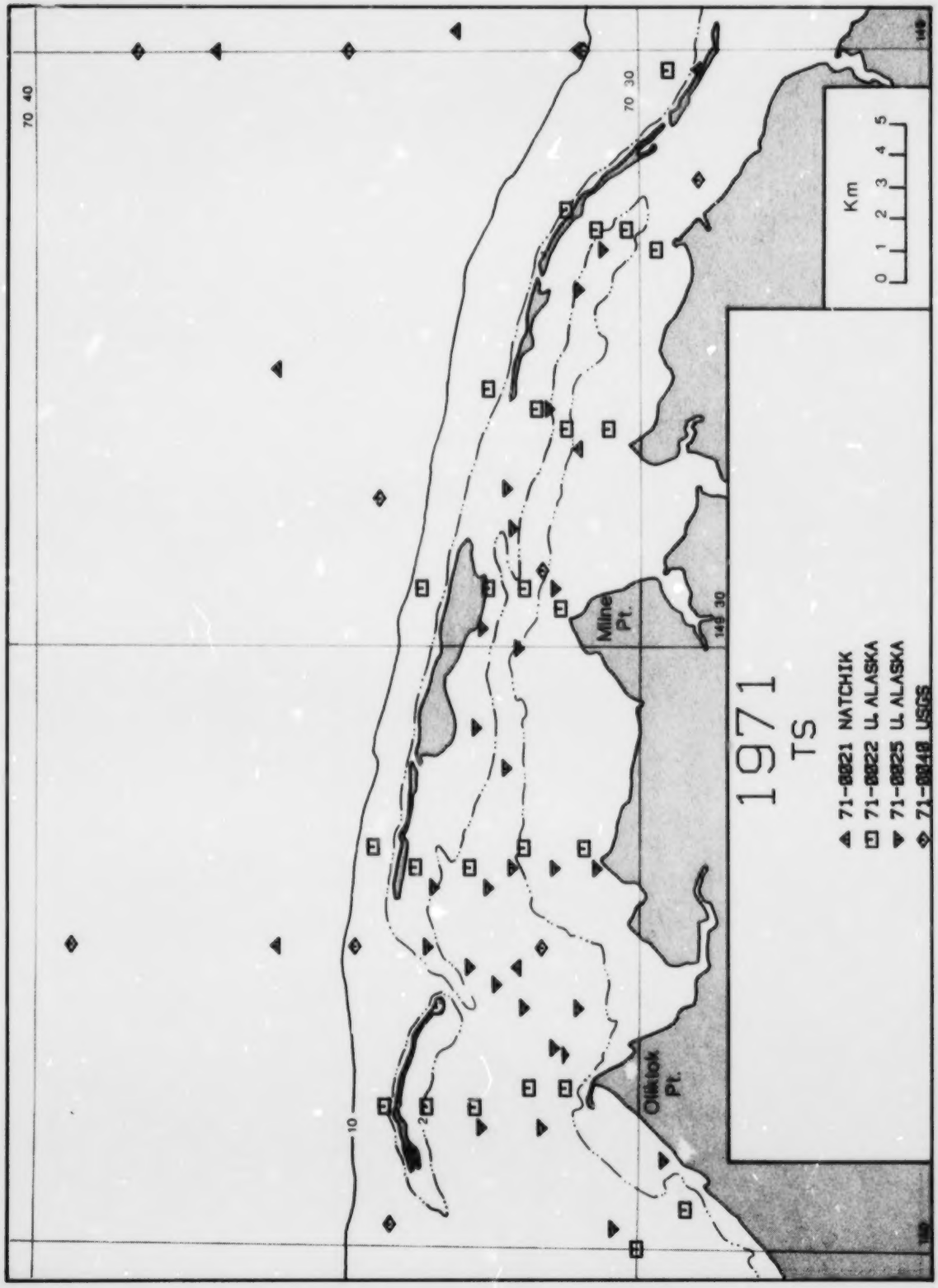

1971
CM
70-0022 T-3
71-0003 AIDJEX 71
71-0022 U. ALASKA
71-0024 APL, U. WASH
WL
69-0016 CHS
69-0026 U. ALASKA
71-0036 CHS
3000
3000
3000
1000
100
85
Km
0
100

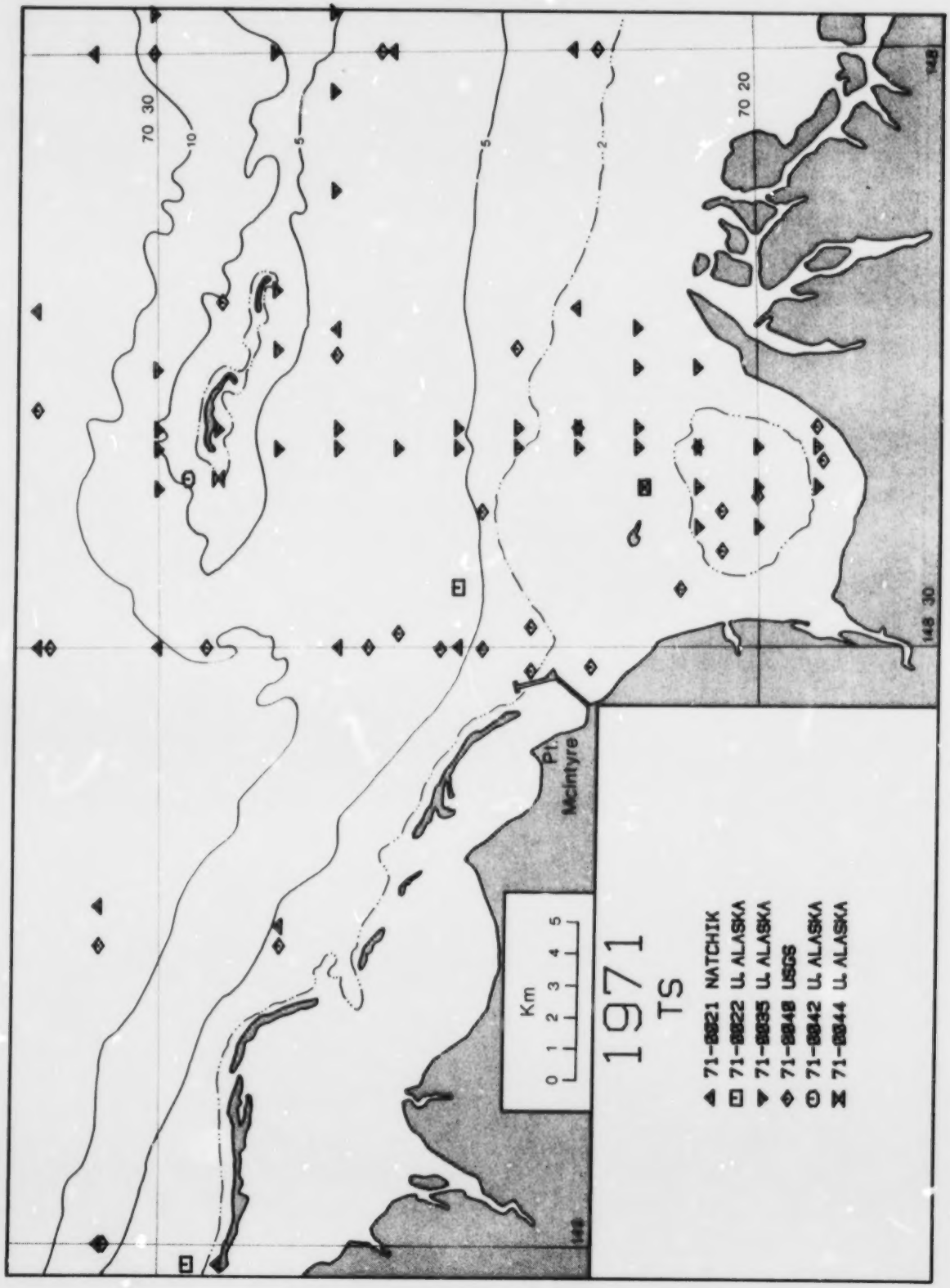

1971
TS
71-0028 GLACIER
71-0021 NATCHIK
71-0022 U. ALASKA
71-0023 NORTHWIND
71-0024 APL/NW
71-0025 U. ALASKA
71-0026 U. ALASKA
71-0033 LSU
71-0035 U. ALASKA
71-0048 USGS
71-0042 U. ALASKA
71-0043 U. ALASKA
71-0044 U. ALASKA
Pt. Barrow
3000
1000
100
10
73
72
71
70
156
150
145
Km
0 25 50 100

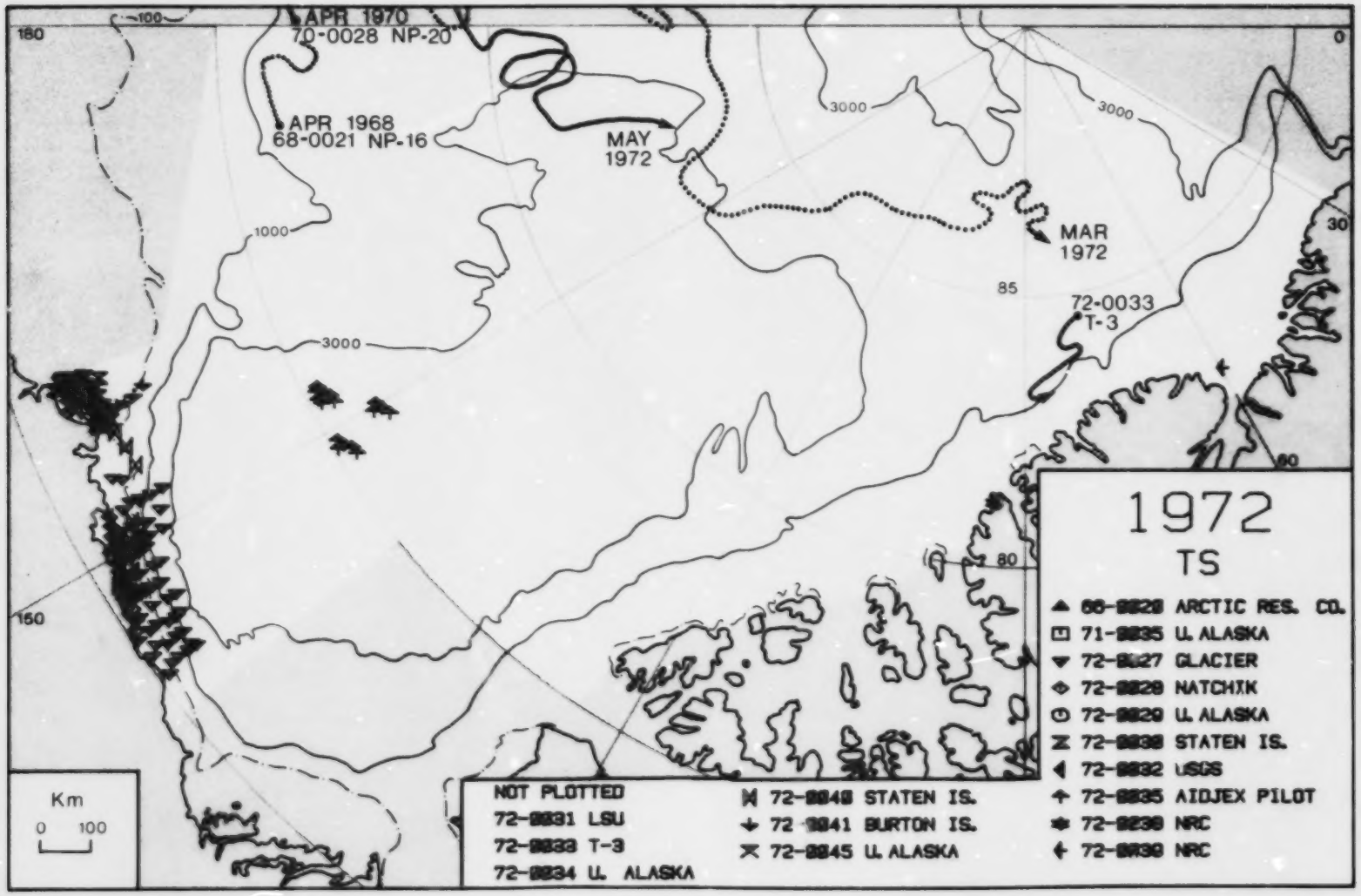

1971
TS
71-0020 GLACIER
71-0021 NATCHIK
71-0022 U. ALASKA
71-0023 NORTHWIND
71-0024 APL/NW
71-0025 U. ALASKA
71-0026 U. ALASKA
71-0033 LSU
71-0040 USGS
71-0042 U. ALASKA
71-0043 U. ALASKA
71-0044 U. ALASKA
160
155
150
72
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

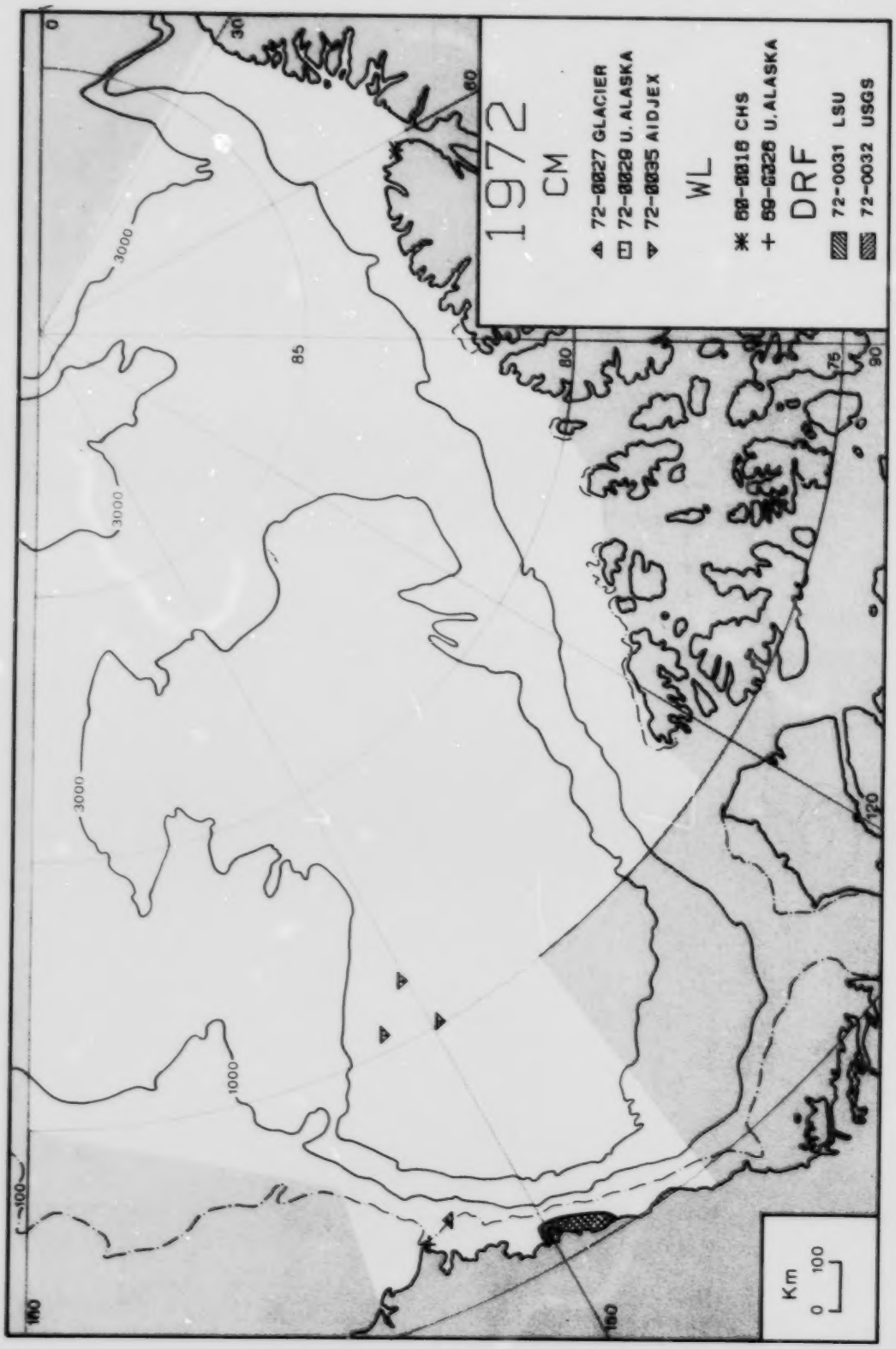

1971
CM
▲ 71-8822 U. ALASKA
⊡ 71-8824 APL, U. WASH.
WL
✱ 69-8826 U. ALASKA
160
155
150
72
71
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

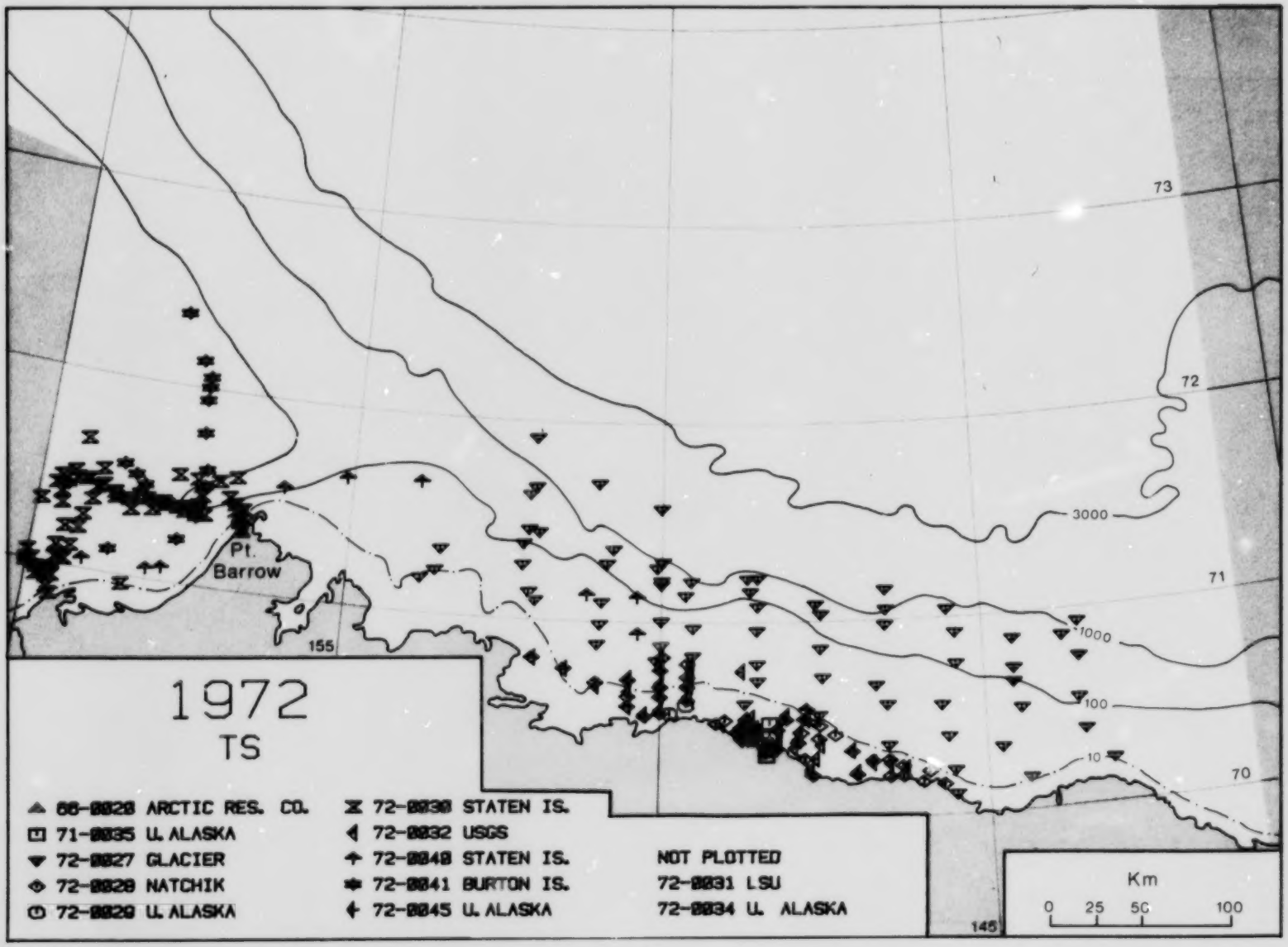

1971
TS
71-0020 GLACIER
71-0021 NATCHIK
71-0022 U. ALASKA
71-0023 NW
71-0025 U. ALASKA
71-0033 LSU
71-0035 U. ALASKA
71-0040 USGS
71-0042 U. ALASKA
71-0044 U. ALASKA
Prudhoe Bay
Km
0 10 20 30 40 50
3000
1000
100
72
71
70
145

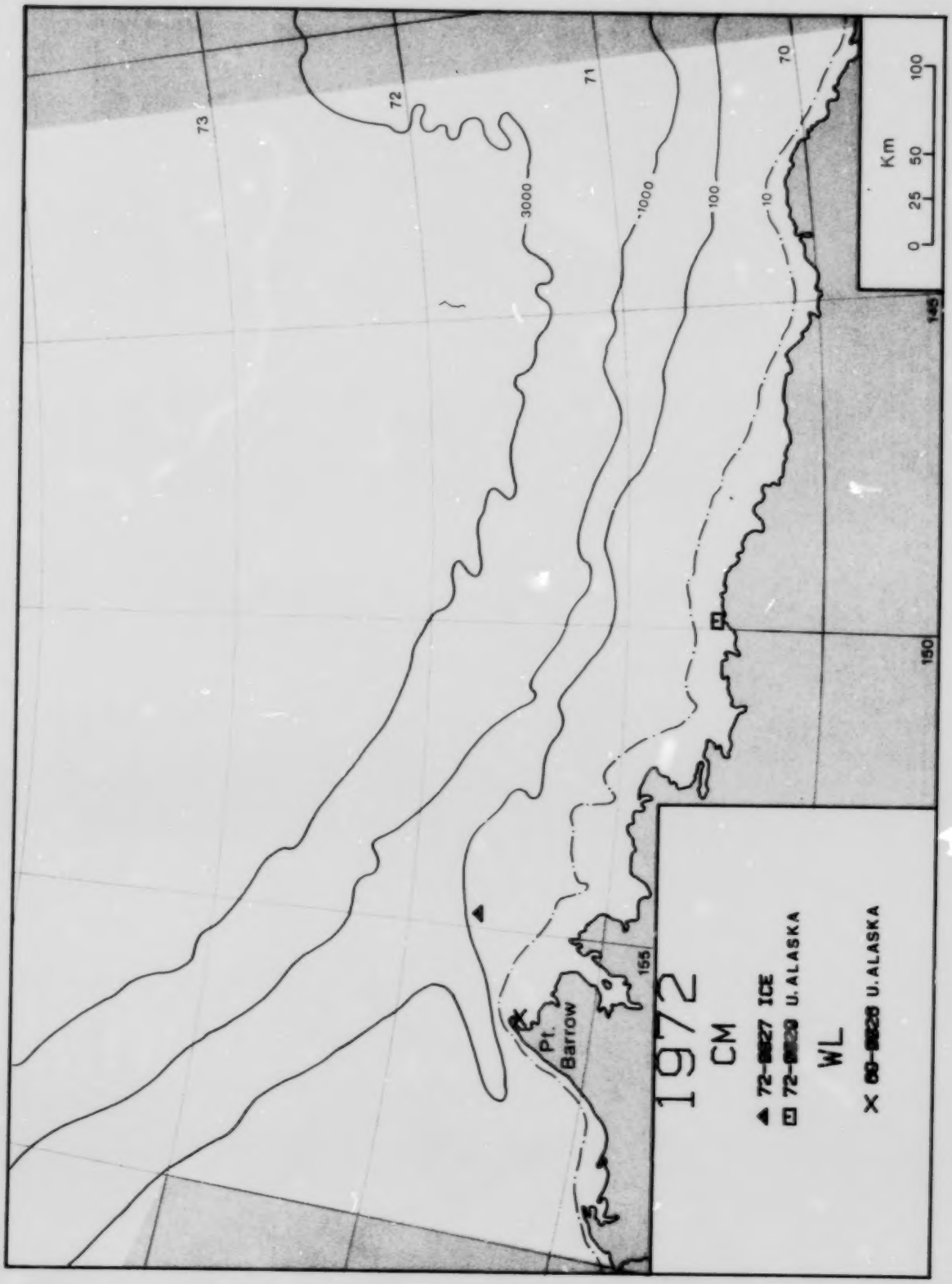

1971
TS
71-0021 NATCHIK
71-0022 U. ALASKA
71-0025 U. ALASKA
71-0040 USGS
Milne Pt.
Oliktok Pt.
Km
0 1 2 3 4 5
70 40
70 30
10
20
148 30
148

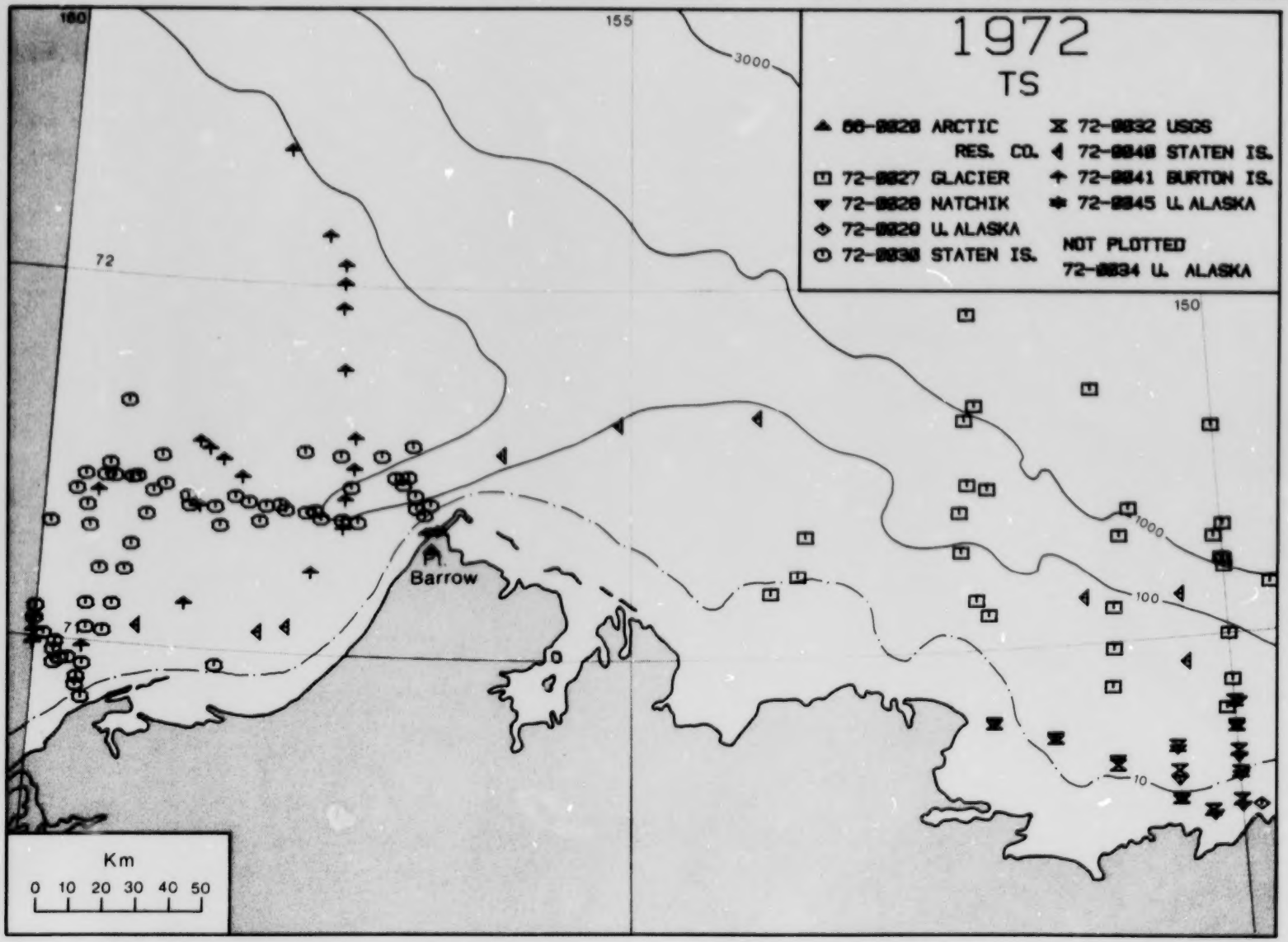

70 30
10
5
5
2
70 20
148 30
Pt. McIntyre
Km
0 1 2 3 4 5
1971
TS
71-8821 NATCHIK
71-8822 UL ALASKA
71-8835 UL ALASKA
71-8848 USGS
71-8842 UL ALASKA
71-8844 UL ALASKA

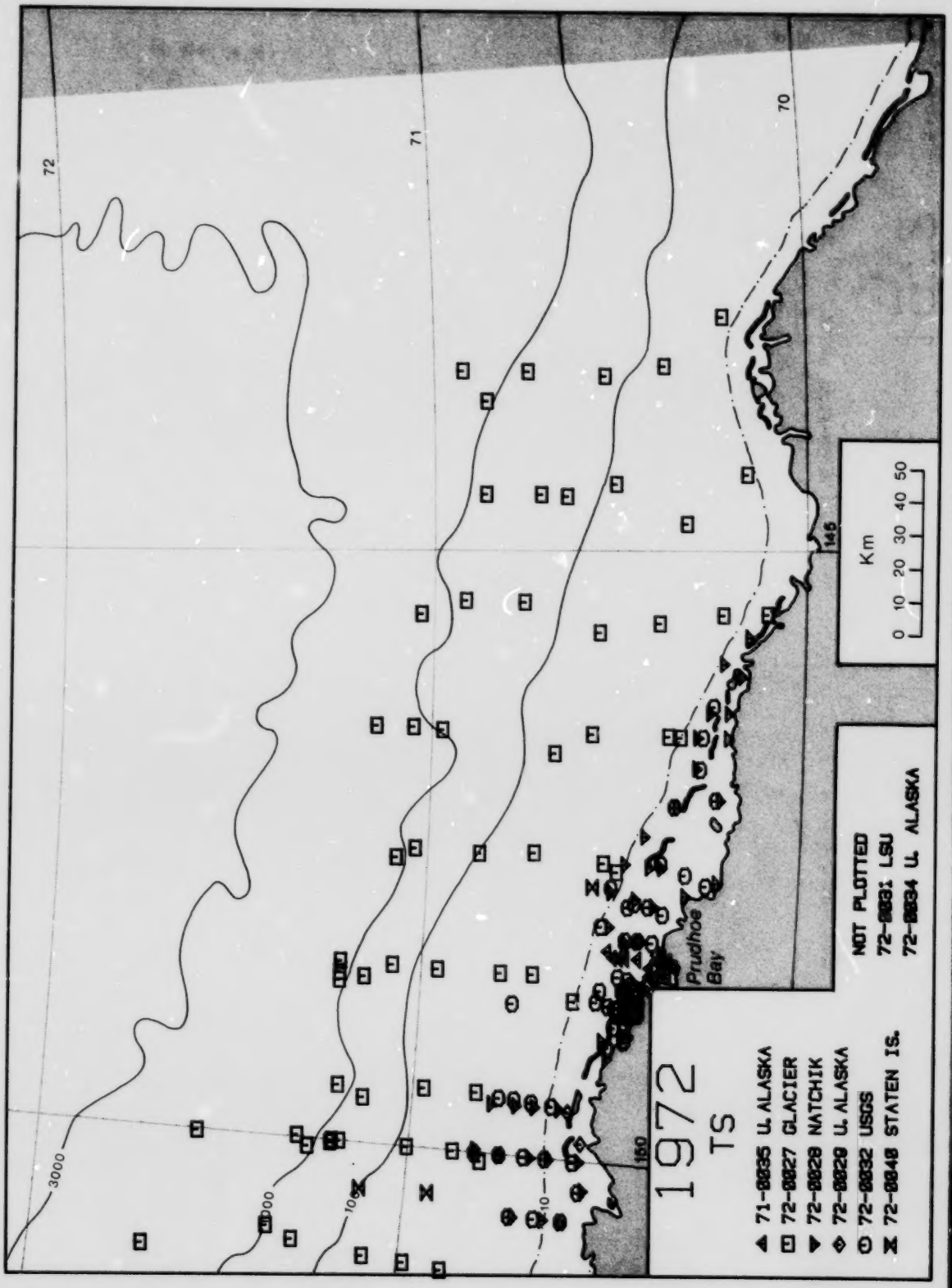

APR 1970
70-0028 NP-20
APR 1968
68-0021 NP-16
MAY
1972
MAR
1972
72-0033
T-3
3000
1000
100
180
150
0
30
60
80
85
Km
0 100
1972
TS
66-0028 ARCTIC RES. CO.
71-0035 U. ALASKA
72-0027 GLACIER
72-0028 NATCHIK
72-0029 U. ALASKA
72-0030 STATEN IS.
72-0032 USGS
72-0035 AIDJEX PILOT
72-0036 NRC
72-0038 NRC
NOT PLOTTED
72-0031 LSU
72-0033 T-3
72-0034 U. ALASKA
72-0040 STATEN IS.
72-0041 BURTON IS.
72-0045 U. ALASKA

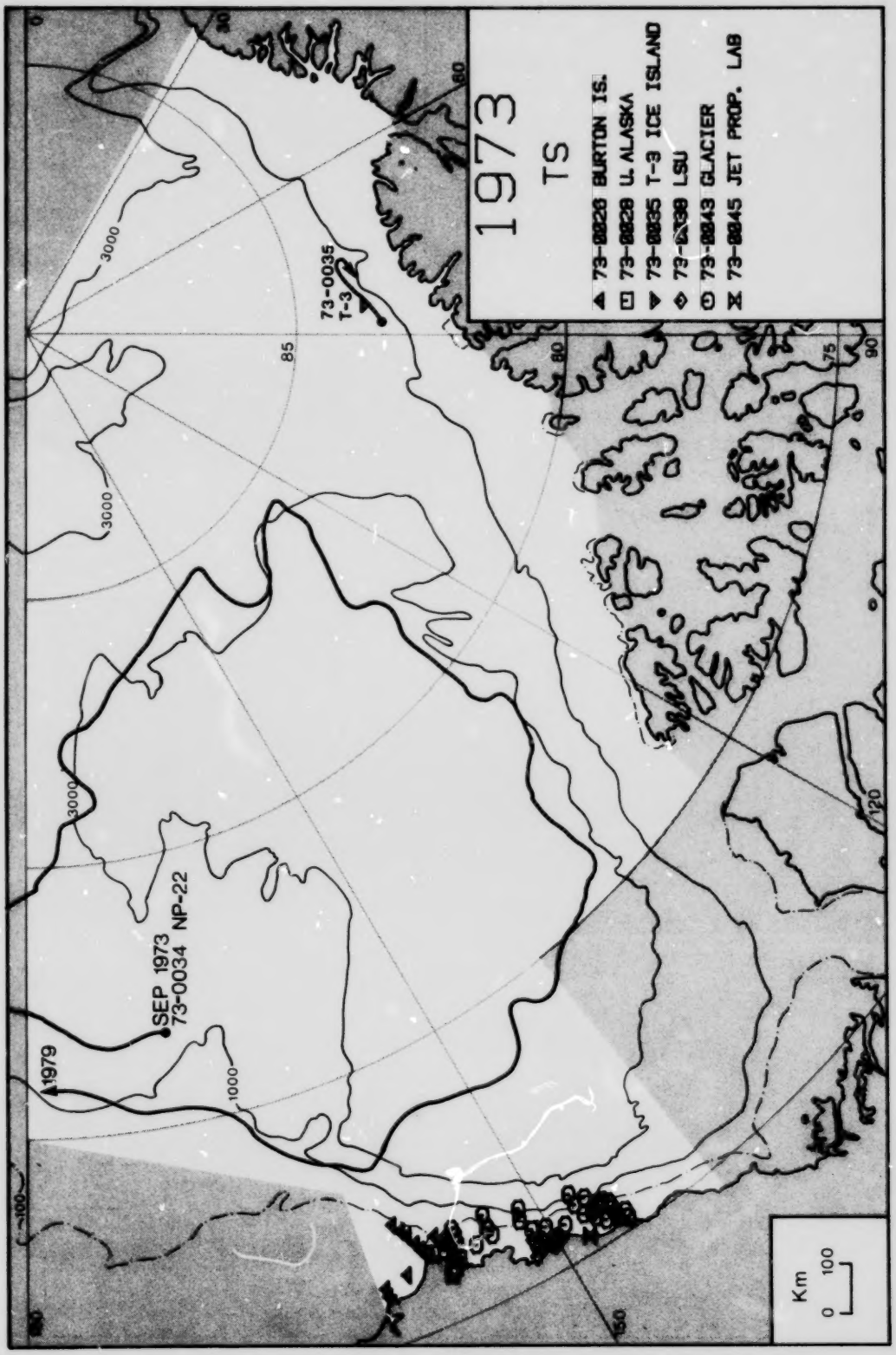

1972
CM
72-0027 GLACIER
72-0029 U. ALASKA
72-0035 AIDJEX
WL
60-0016 CHS
69-0026 U. ALASKA
DRF
72-0031 LSU
72-0032 USGS
Km
0
100
3000
1000
85
80
75
90
120
180
0
30
60

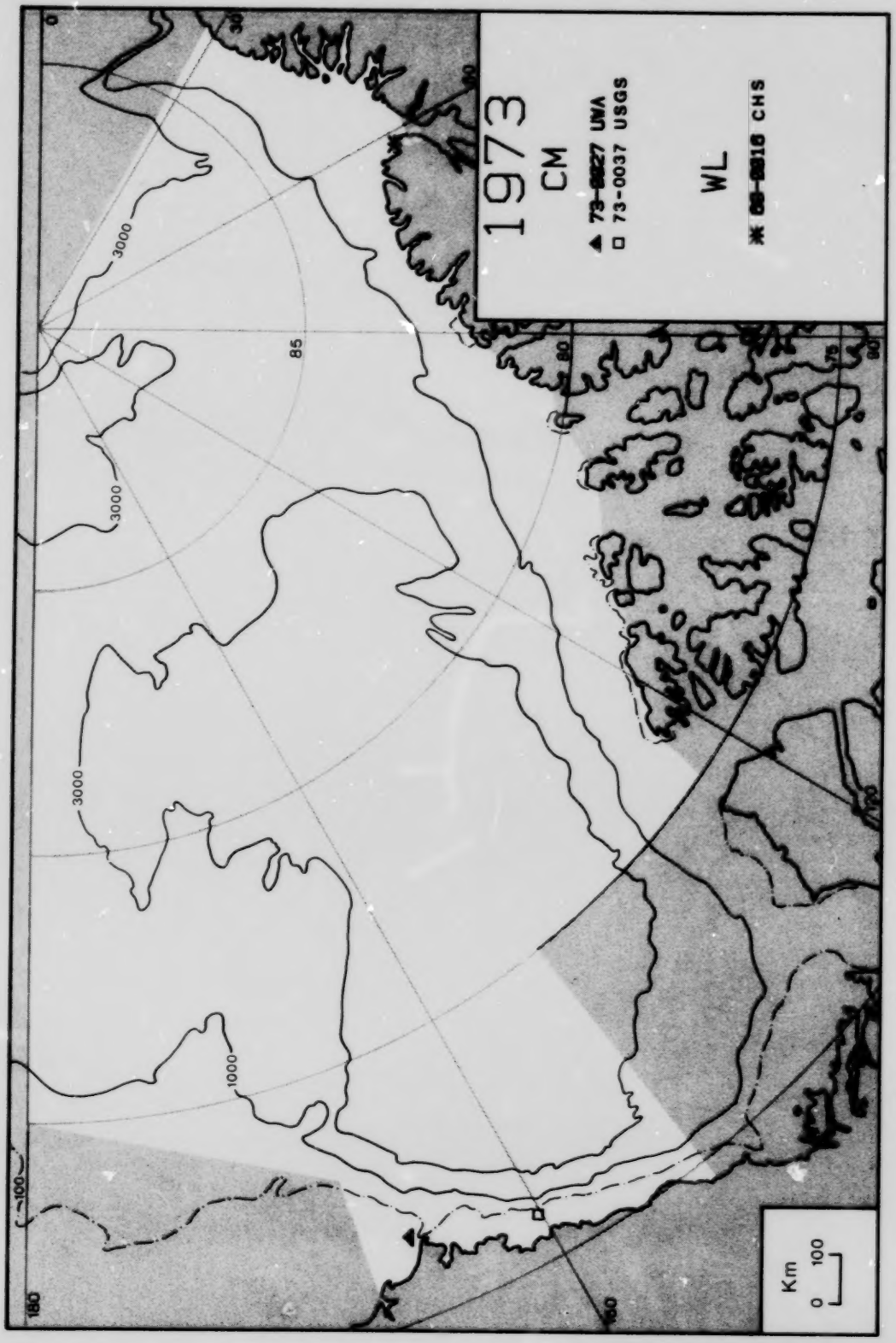

1972
TS
66-0028 ARCTIC RES. CO.
71-0035 U. ALASKA
72-0027 GLACIER
72-0028 NATCHIK
72-0029 U. ALASKA
72-0030 STATEN IS.
72-0032 USGS
72-0040 STATEN IS.
72-0041 BURTON IS.
72-0045 U. ALASKA
NOT PLOTTED
72-0031 LSU
72-0034 U. ALASKA
Pt. Barrow
155
145
73
72
71
70
3000
1000
100
10
Km
0 25 50 100

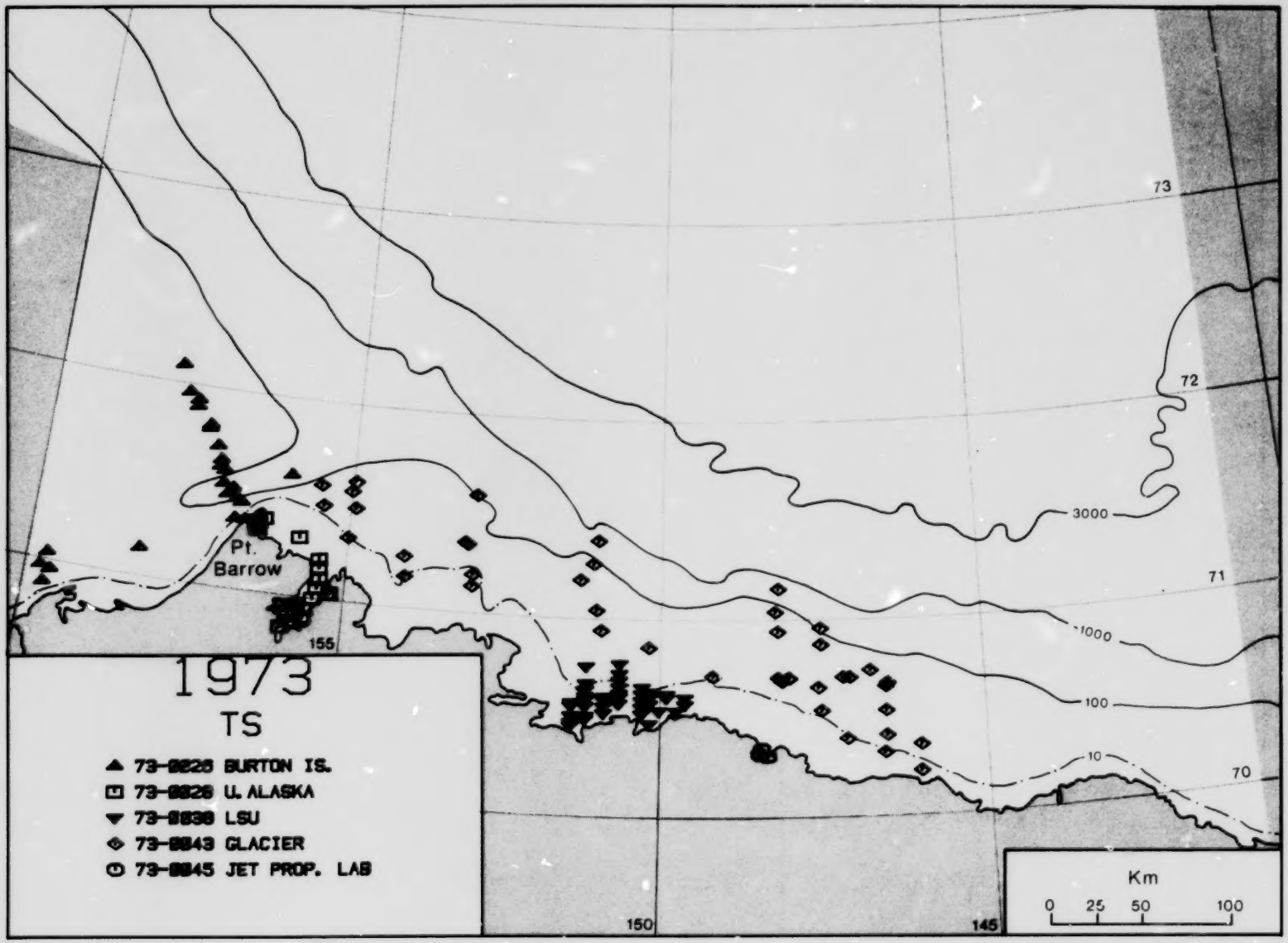

1972
CM
▲ 72-[illegible] ICE
⊡ 72-[illegible] U. ALASKA
WL
× [illegible] U. ALASKA
Pt. Barrow
73
72
71
70
3000
1000
100
10
155
150
145
Km
0 25 50 100

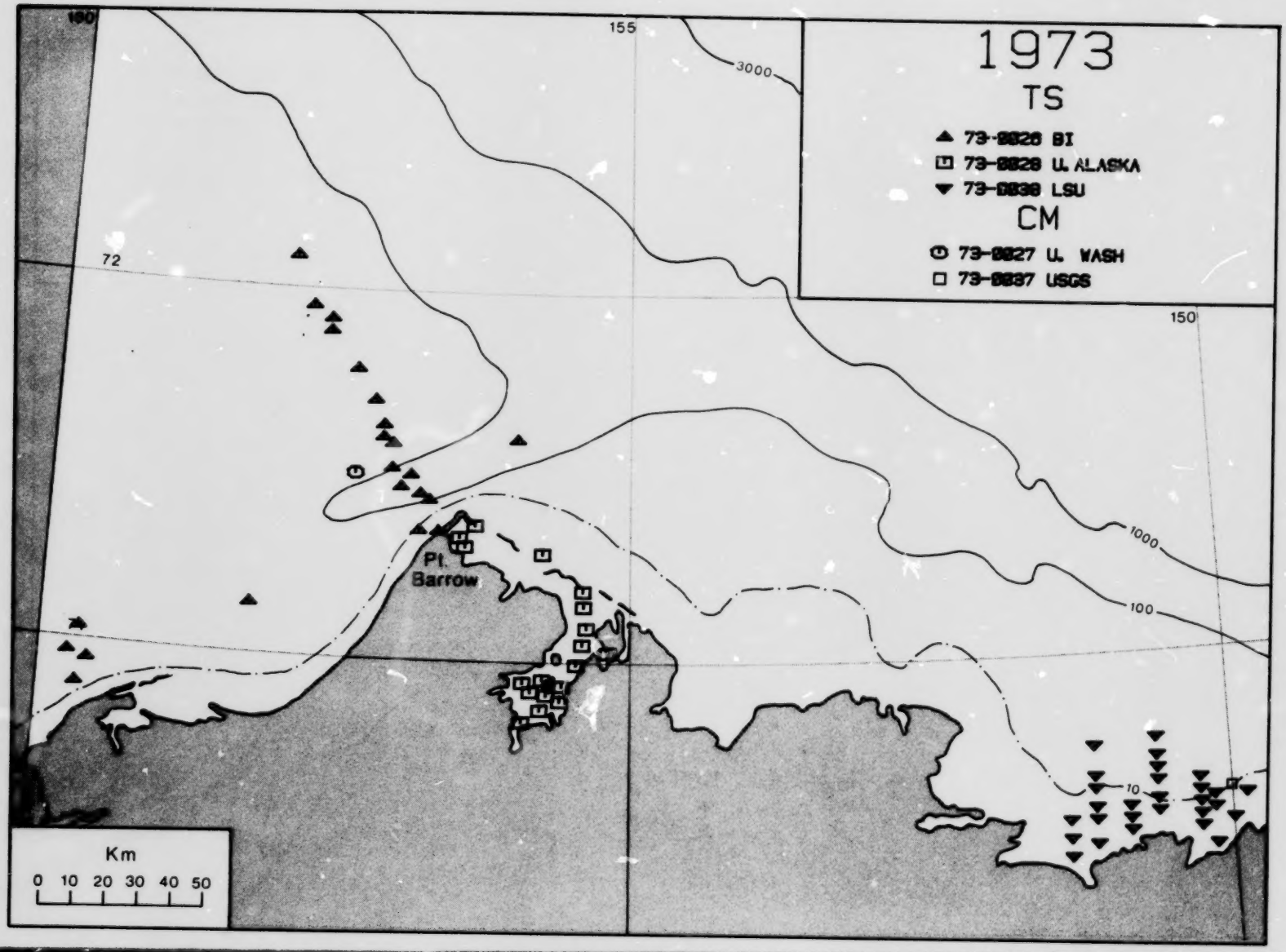

1972
TS
66-0028 ARCTIC RES. CO.
72-0027 GLACIER
72-0028 NATCHIK
72-0029 U. ALASKA
72-0030 STATEN IS.
72-0032 USGS
72-0040 STATEN IS.
72-0041 BURTON IS.
72-0045 U. ALASKA
NOT PLOTTED
72-0034 U. ALASKA
160
155
150
72
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

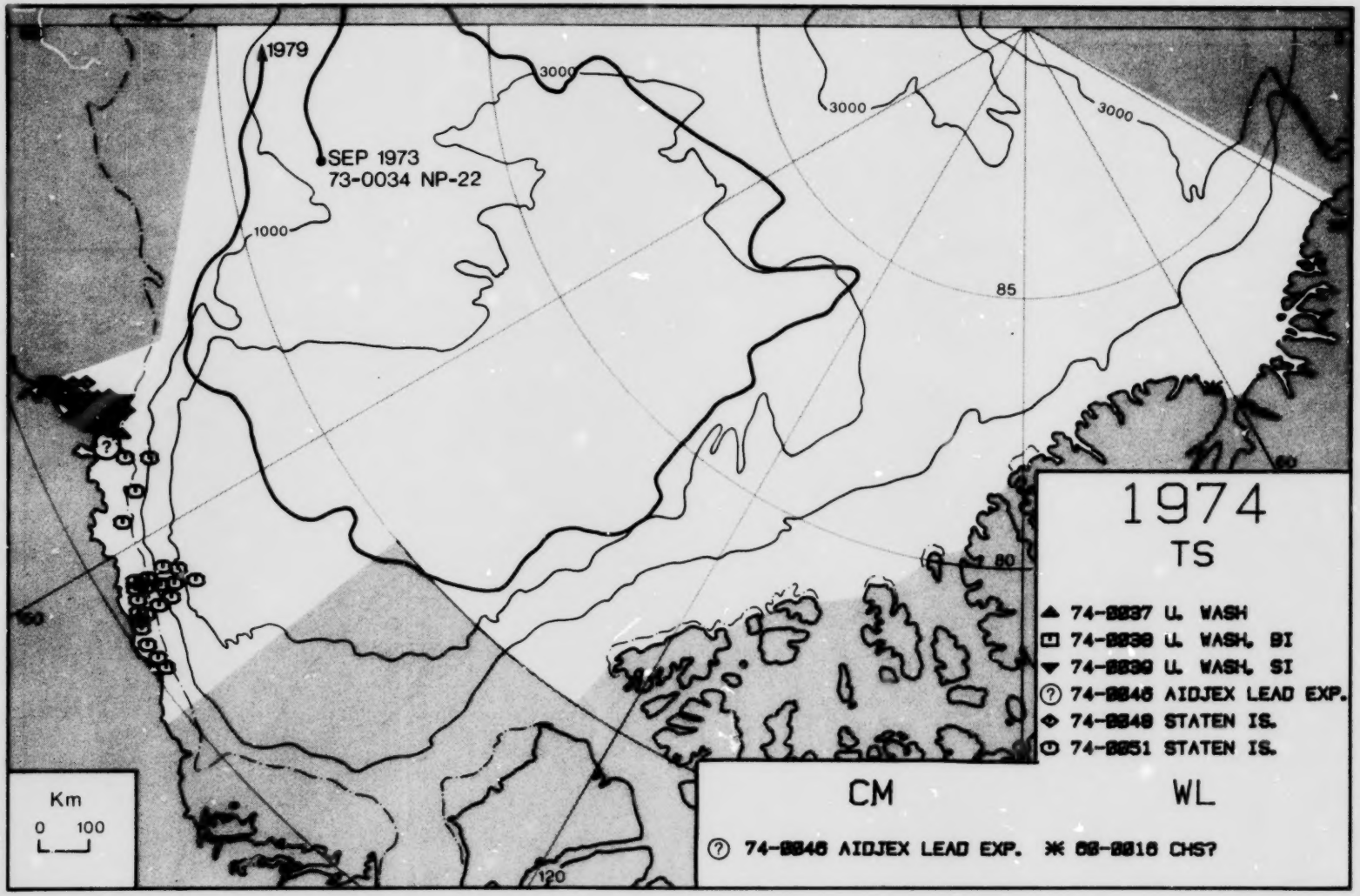

1972
TS
71-0035 U. ALASKA
72-0027 GLACIER
72-0028 NATCHIK
72-0029 U. ALASKA
72-0032 USGS
72-0040 STATEN IS.
NOT PLOTTED
72-0031 LSU
72-0034 U. ALASKA
Prudhoe Bay
Km
0 10 20 30 40 50
3000
72
71
70
145
150

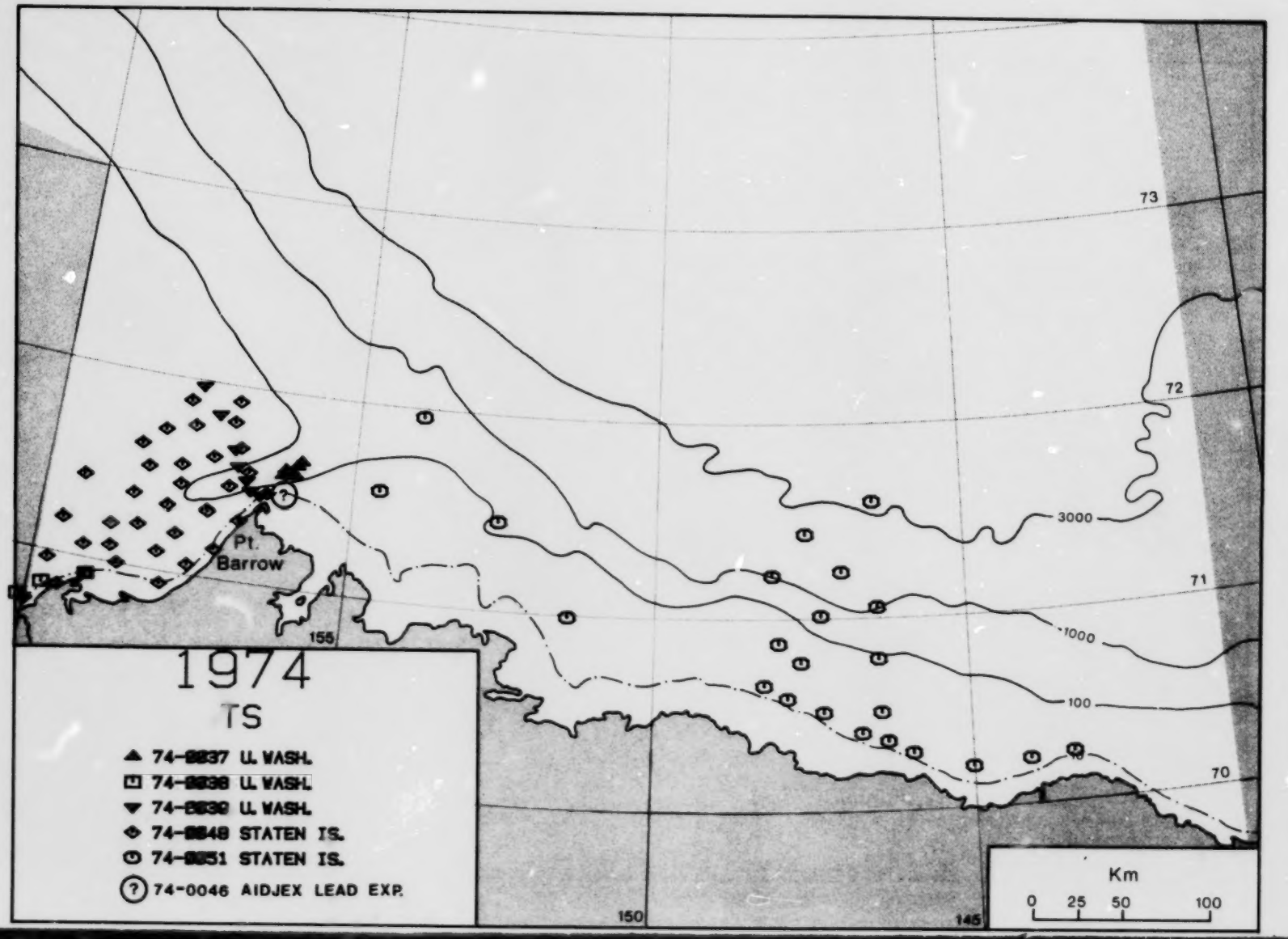

1973
TS
73-0026 BURTON IS.
73-0028 U. ALASKA
73-0035 T-3 ICE ISLAND
73-0038 LSU
73-0043 GLACIER
73-0045 JET PROP. LAB
73-0035
T-3
SEP 1973
73-0034 NP-22
1979
3000
1000
85
80
75
90
120
150
Km
0
100

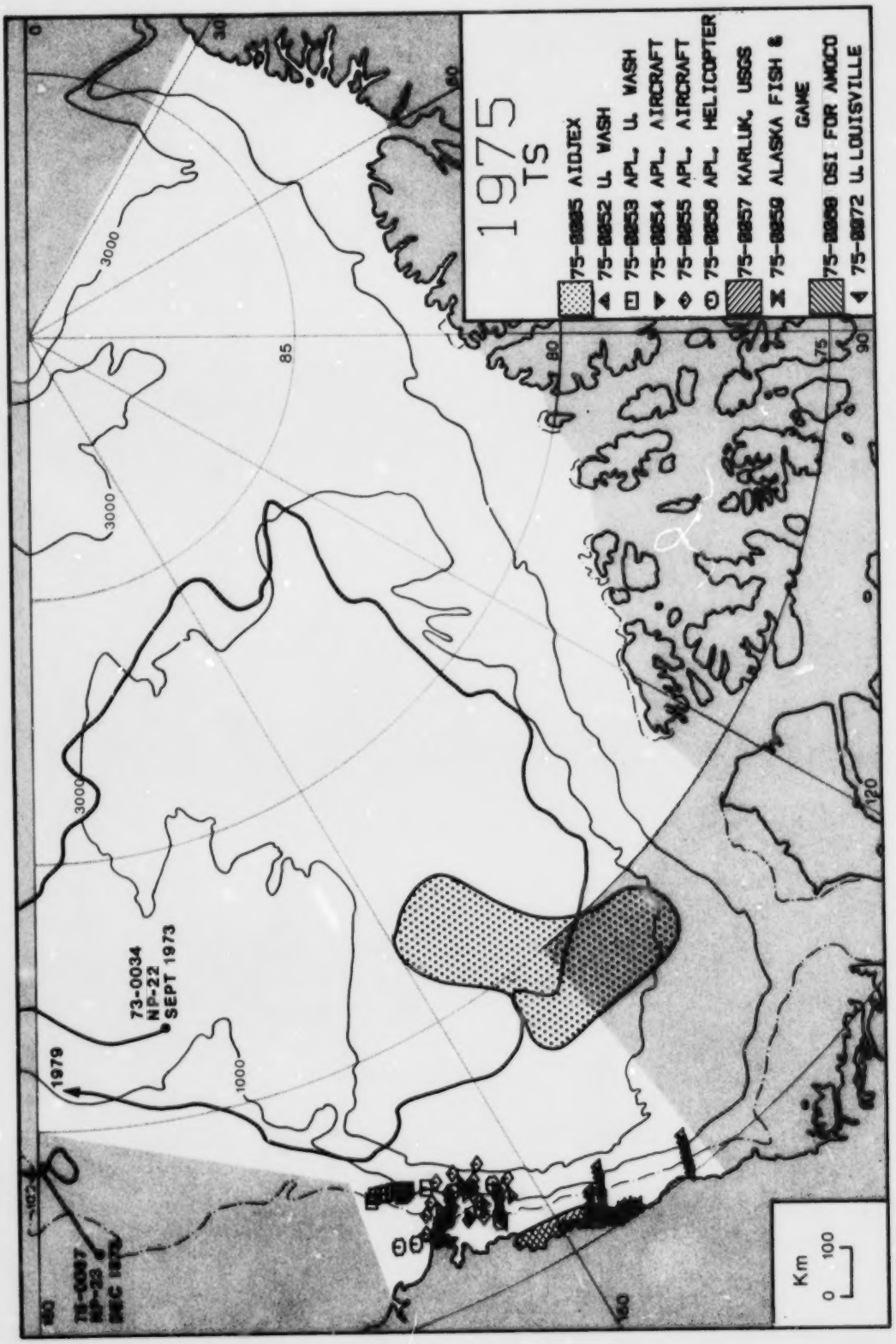

1973
CM
73-0037 USGS
WL
CHS
3000
3000
3000
1000
85
80
75
90
0
30
60
100
180
160
Km
0
100

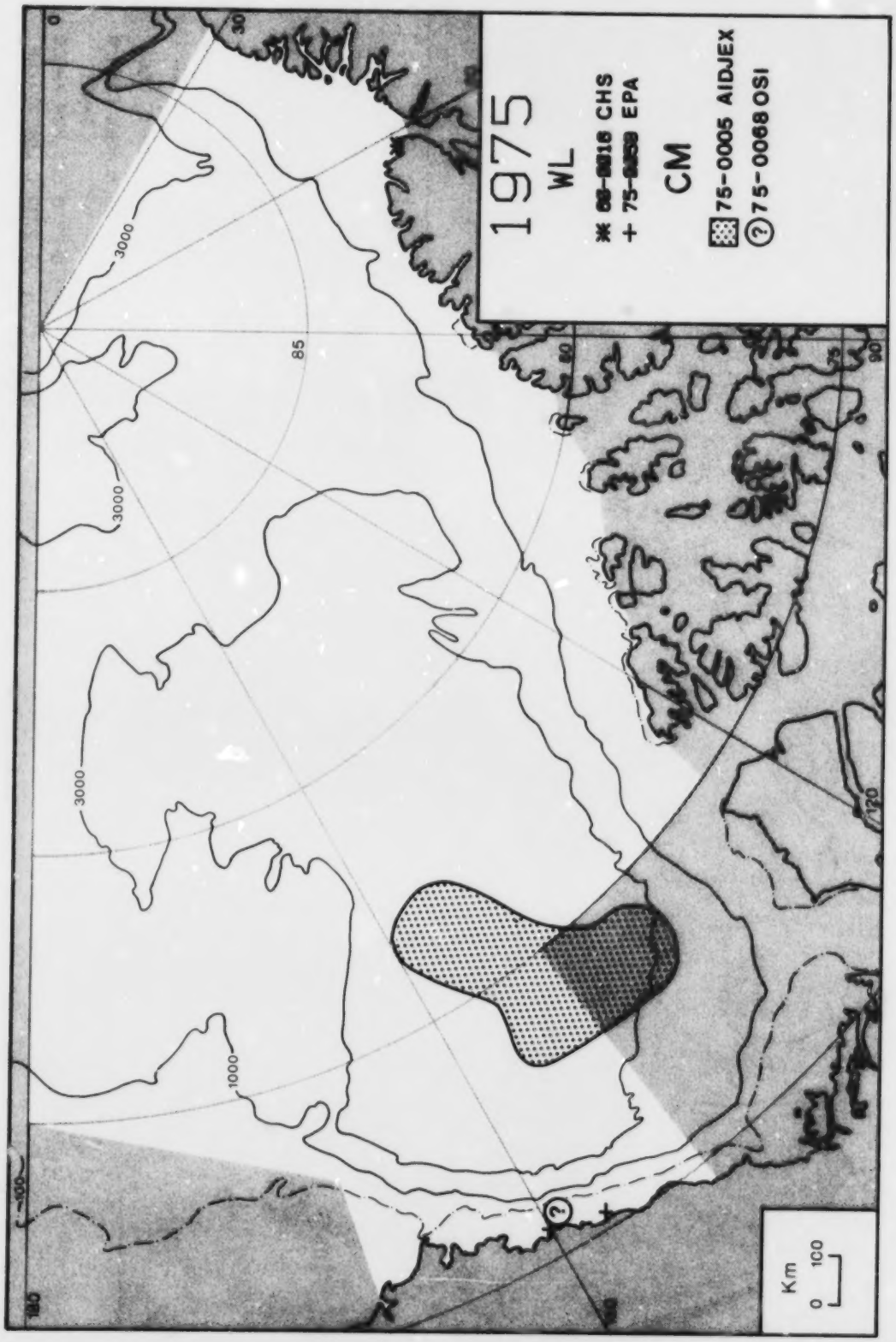

1973
TS
73-0228 BURTON IS.
73-0328 U. ALASKA
73-0338 LSU
73-0343 GLACIER
73-0345 JET PROP. LAB
Pt. Barrow
155
150
145
73
72
71
70
3000
1000
100
10
Km
0 25 50 100

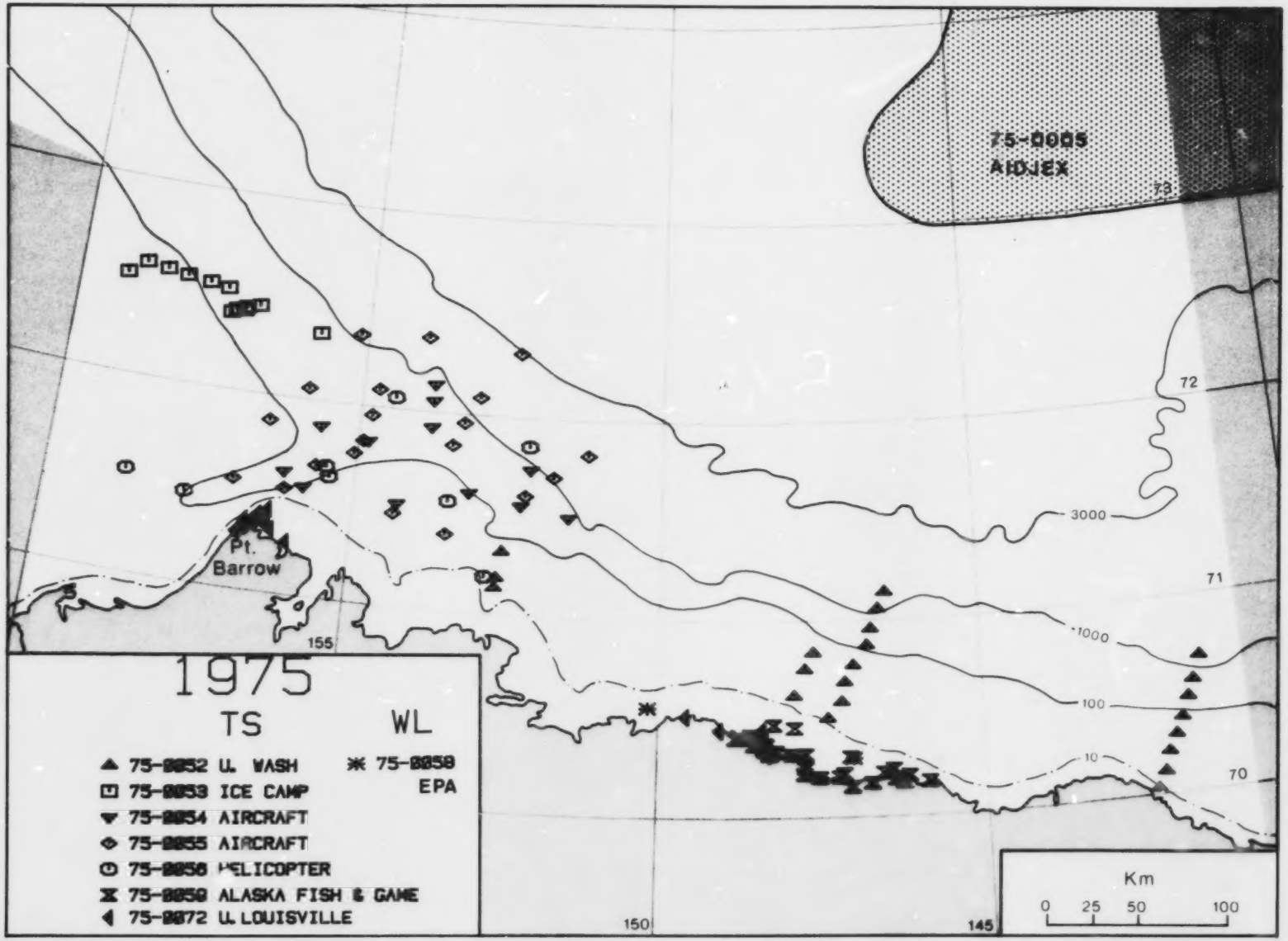

1973
TS
73-0026 BI
73-0028 U. ALASKA
73-0038 LSU
CM
73-0027 U. WASH
73-0037 USGS
160
155
150
72
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

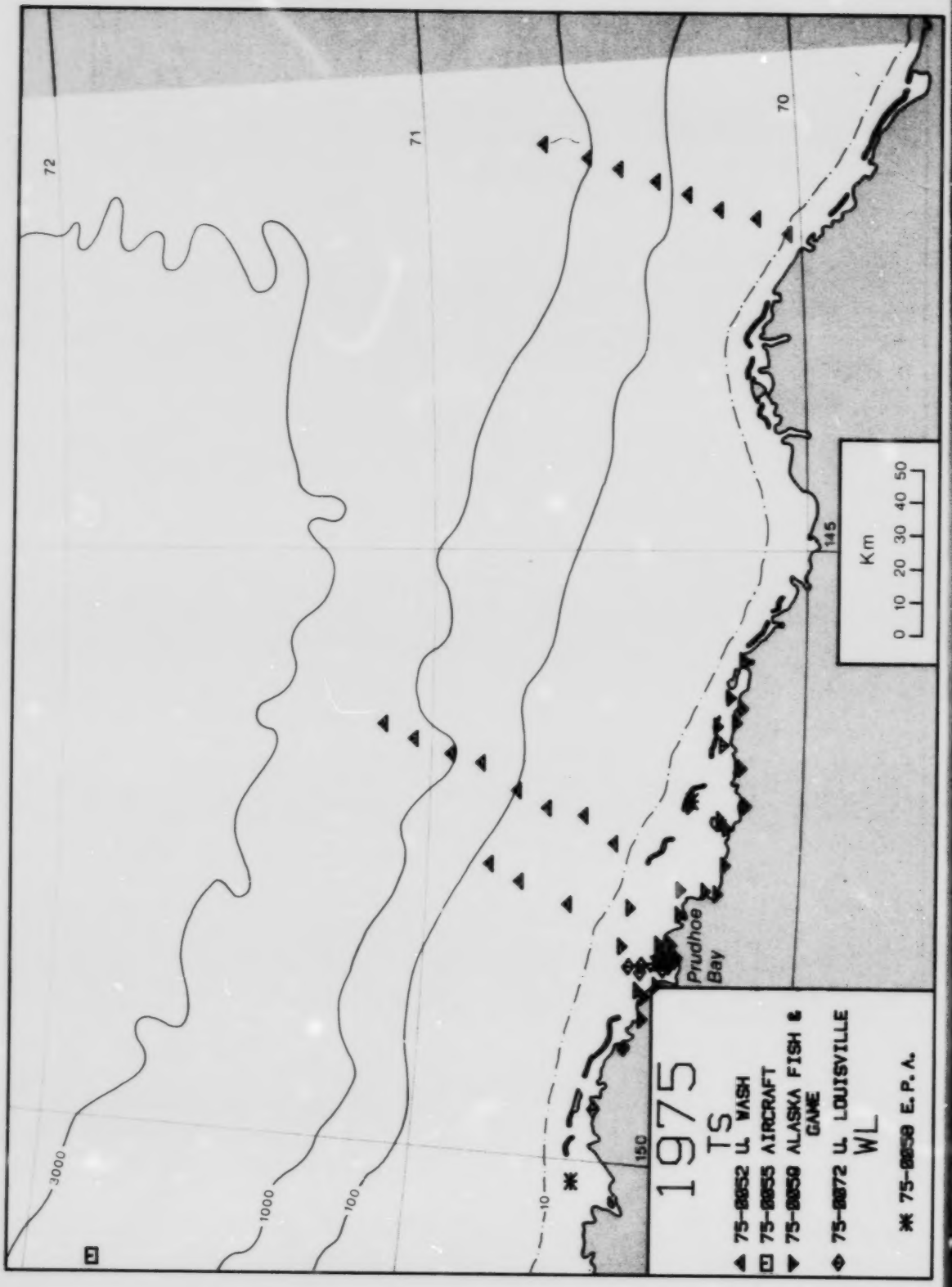

1979
SEP 1973
73-0034 NP-22
3000
3000
3000
1000
85
80
160
120
60
Km
0 100
1974
TS
74-0037 U. WASH
74-0038 U. WASH. BI
74-0039 U. WASH. SI
74-0046 AIDJEX LEAD EXP.
74-0048 STATEN IS.
74-0051 STATEN IS.
CM
WL
74-0046 AIDJEX LEAD EXP.
69-0016 CHS?

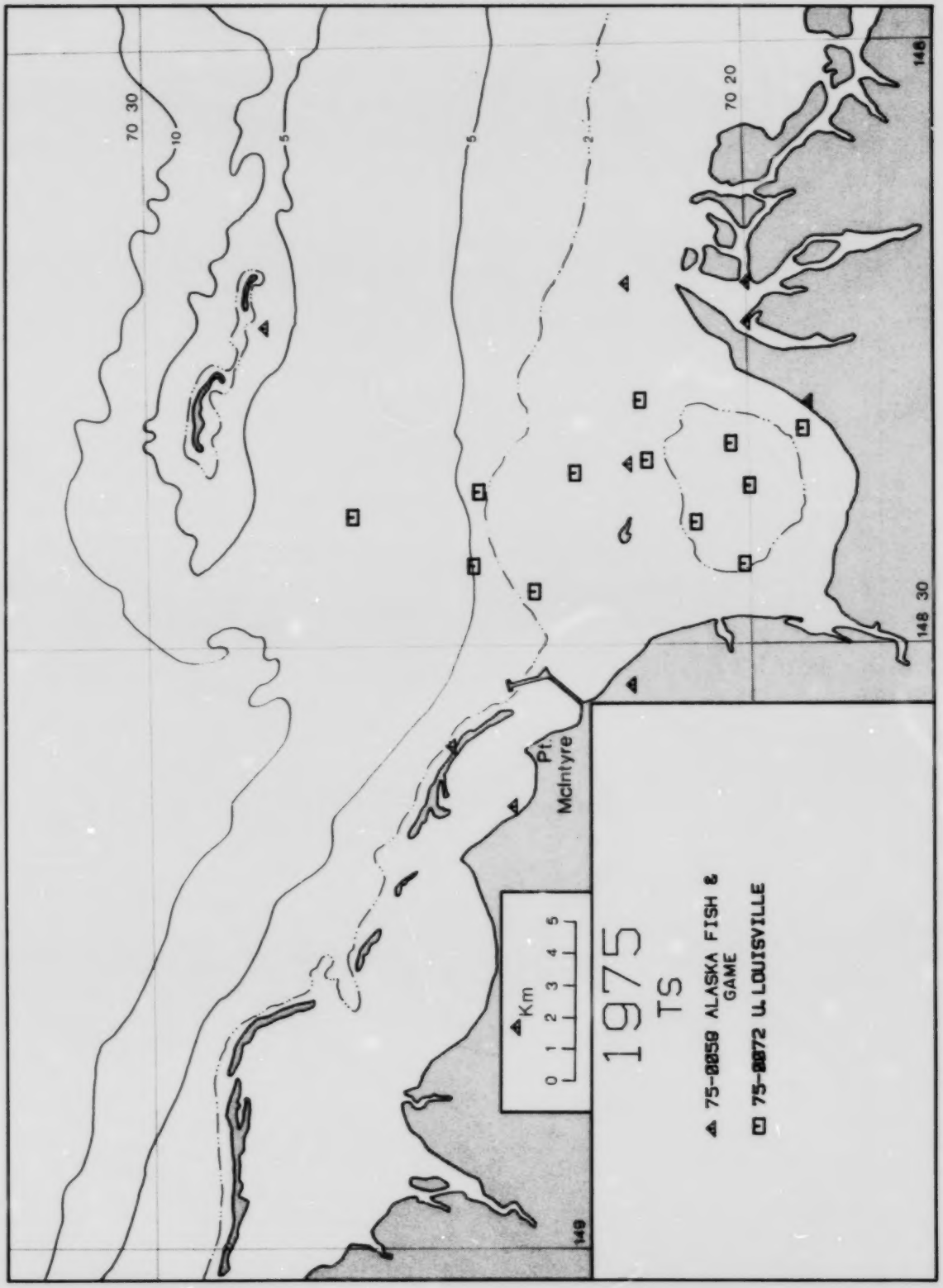

1974
TS
74-0037 U. WASH.
74-0038 U. WASH.
74-0039 U. WASH.
74-0048 STATEN IS.
74-0051 STATEN IS.
74-0046 AIDJEX LEAD EXP.
Pt. Barrow
155
150
145
73
72
71
70
3000
1000
100
Km
0 25 50 100

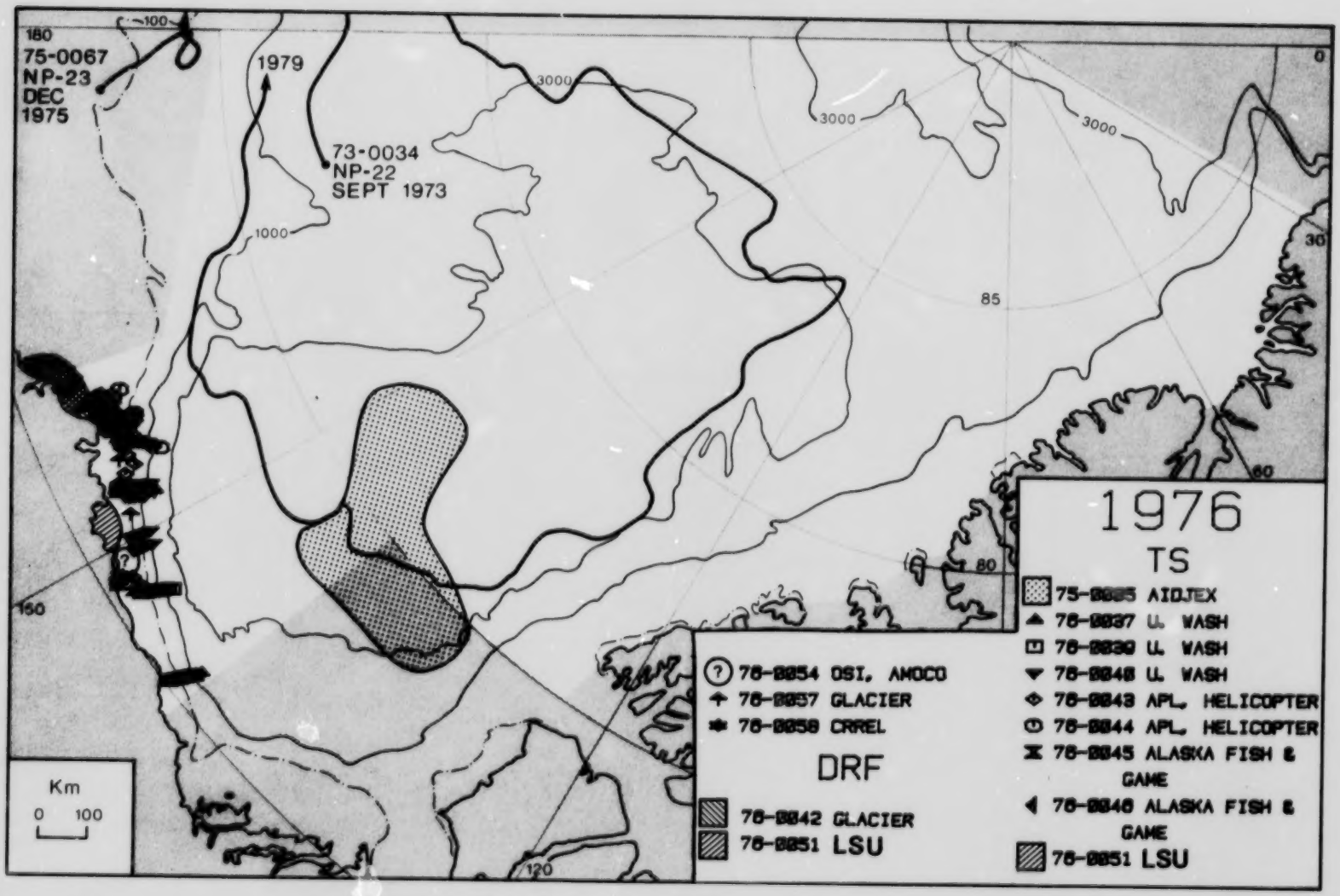

1975
TS
75-0085 AIDJEX
75-0052 U. WASH
75-0053 APL, U. WASH
75-0054 APL, AIRCRAFT
75-0055 APL, AIRCRAFT
75-0056 APL, HELICOPTER
75-0057 KARLUK, USGS
75-0058 ALASKA FISH & GAME
75-0069 DSI FOR AMOCO
75-0072 U. LOUISVILLE
73-0034
NP-22
SEPT 1973
1979
3000
1000
85
80
75
90
120
150
Km
0 100

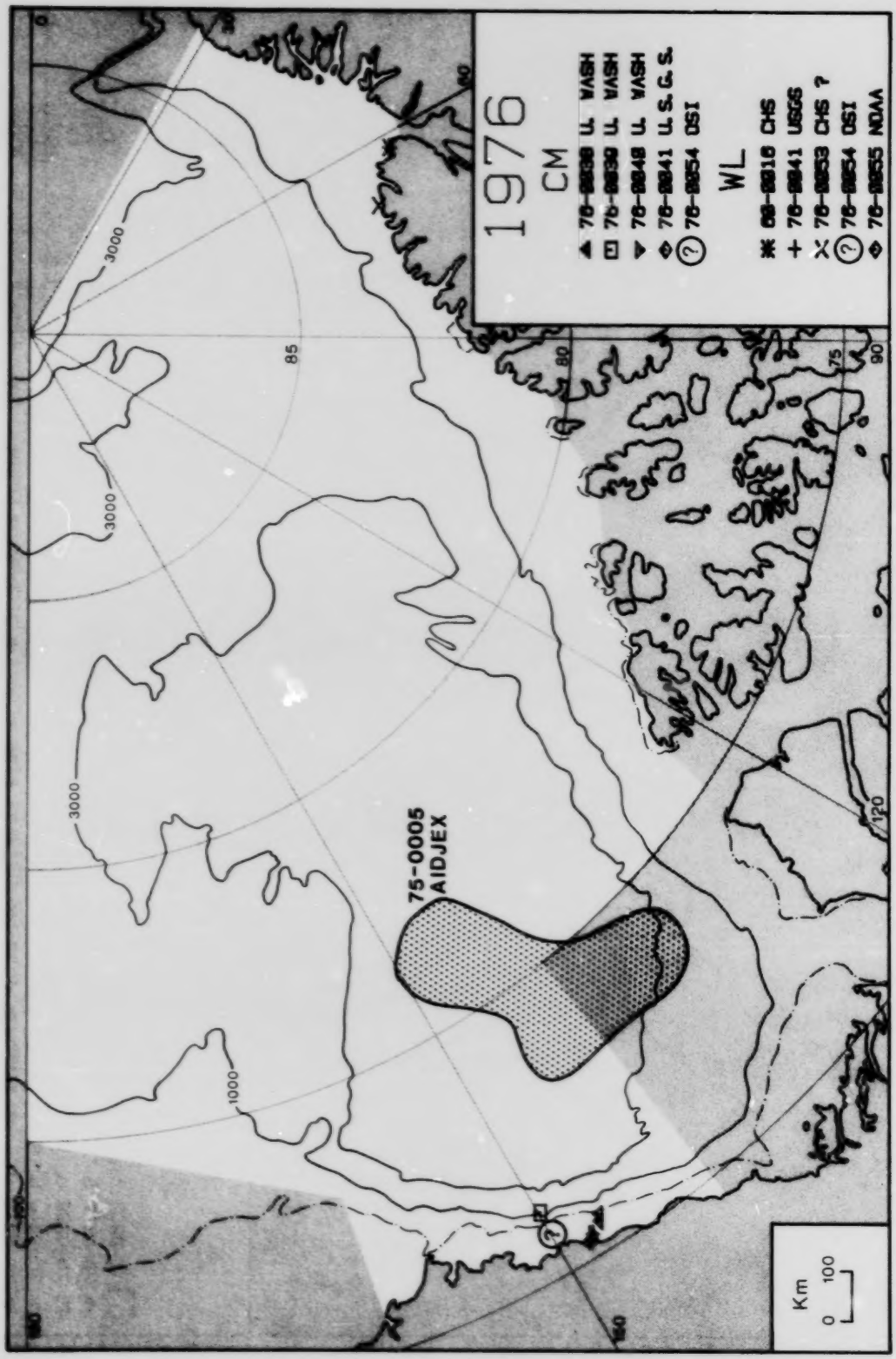

1975
WL
CHS
EPA
CM
75-0005 AIDJEX
75-0068 OSI
3000
3000
3000
1000
85
Km
0
100

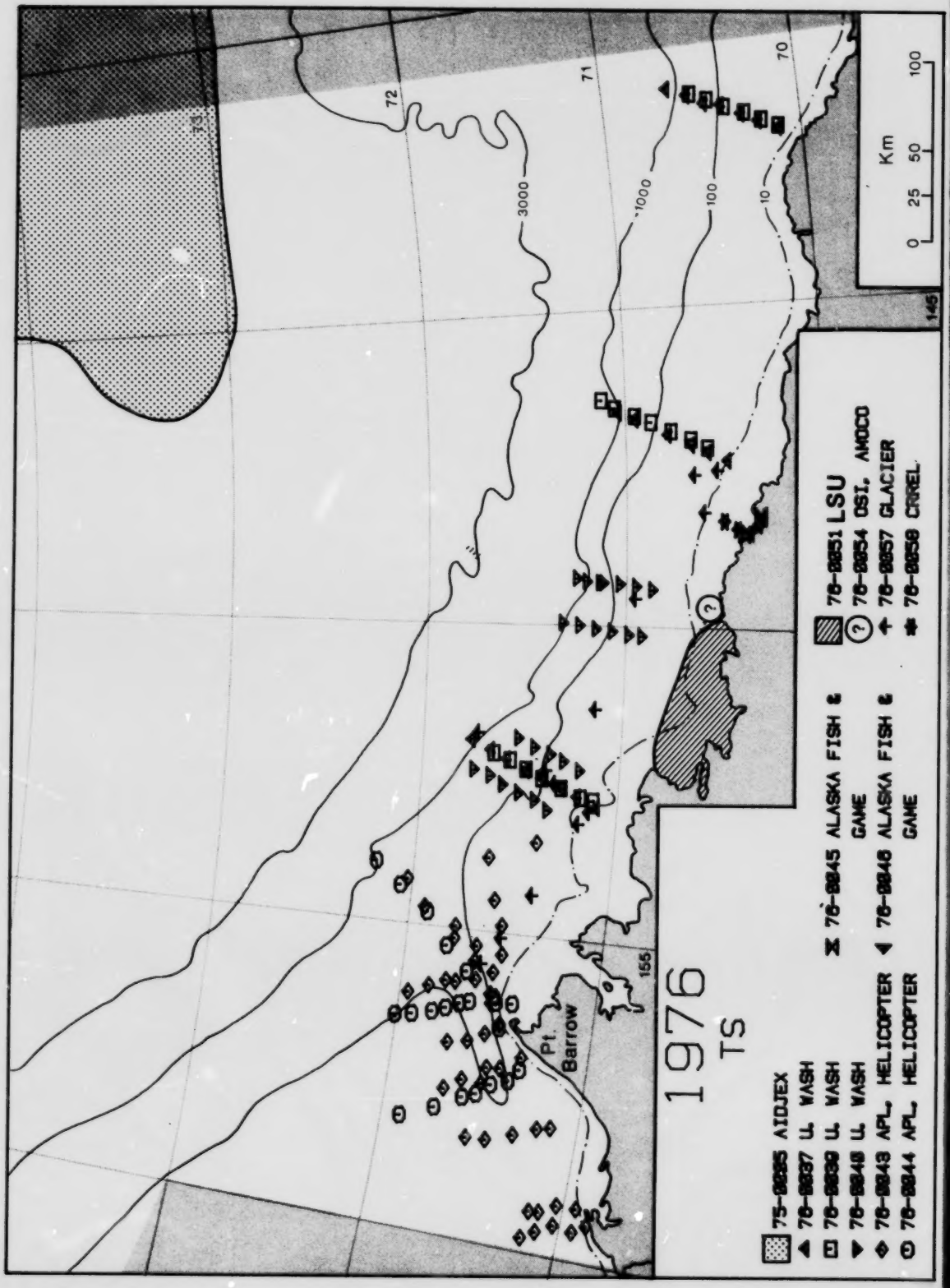

75-0005
AIDJEX
73
72
71
70
3000
1000
100
10
Pt.
Barrow
155
150
145
1975
TS
WL
75-0052 U. WASH
75-0053 ICE CAMP
75-0054 AIRCRAFT
75-0055 AIRCRAFT
75-0056 HELICOPTER
75-0059 ALASKA FISH & GAME
75-0072 U. LOUISVILLE
75-0058
EPA
Km
0 25 50 100

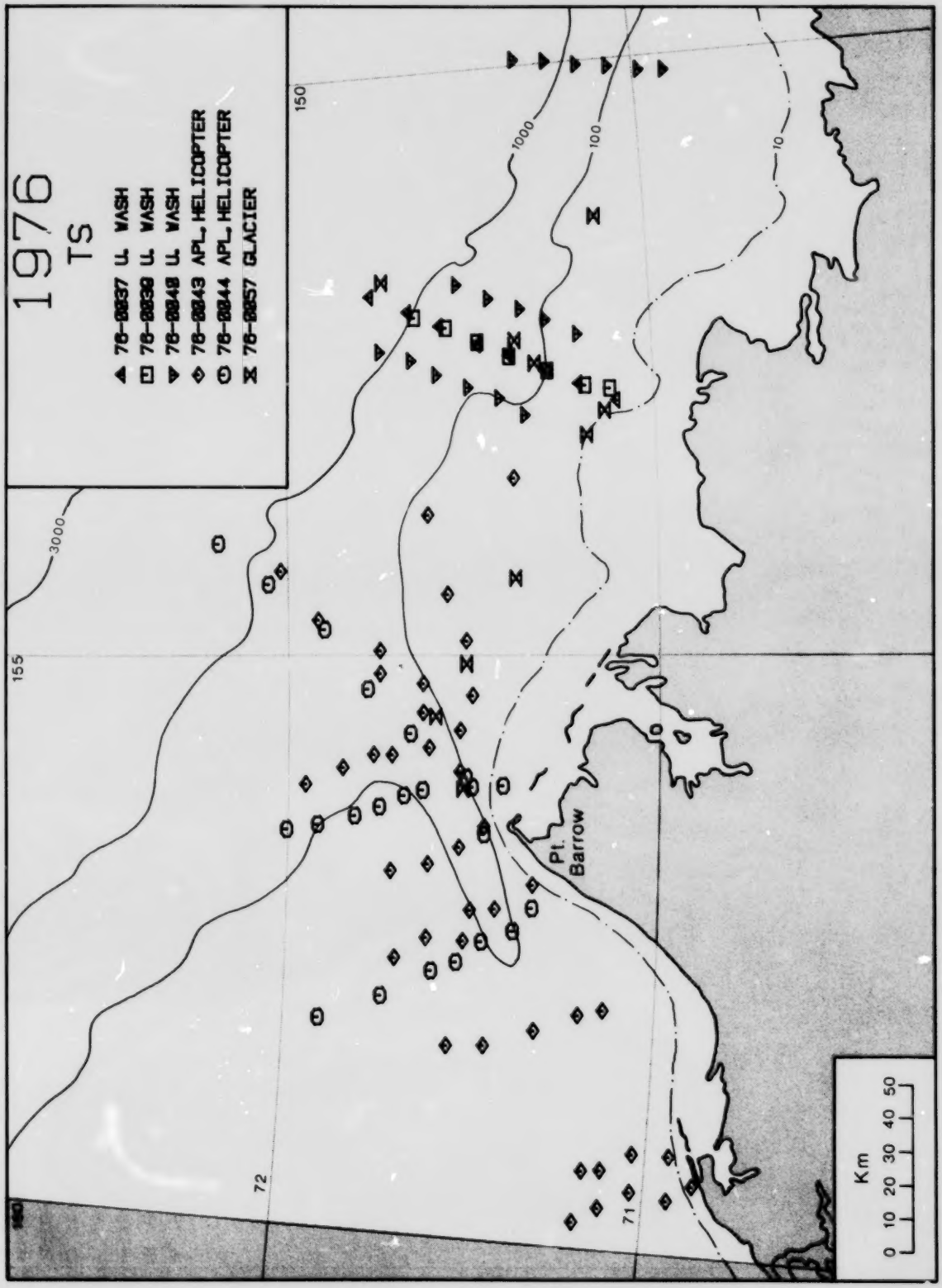

72
71
70
3000
1000
100
10
150
145
Prudhoe Bay
Km
0 10 20 30 40 50
1975
TS
▲ 75-0052 U. WASH
□ 75-0055 AIRCRAFT
▼ 75-0058 ALASKA FISH & GAME
◆ 75-0072 U. LOUISVILLE
WL
✱ 75-0058 E.P.A.

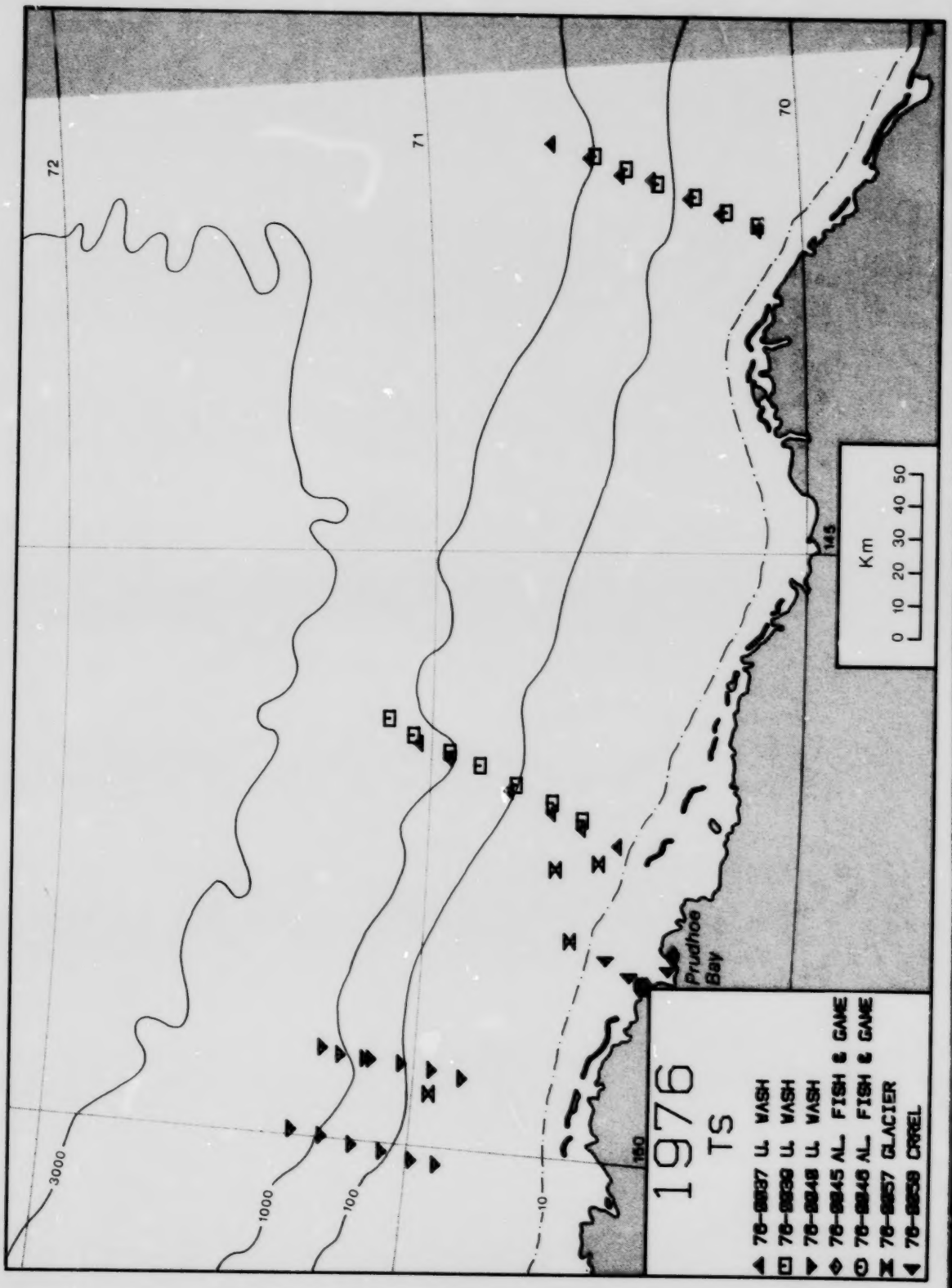

70 30
10
5
5
2
70 20
146
148 30
Pt. McIntyre
Km
0 1 2 3 4 5
149
1975
TS
75-8858 ALASKA FISH & GAME
75-8872 U. LOUISVILLE

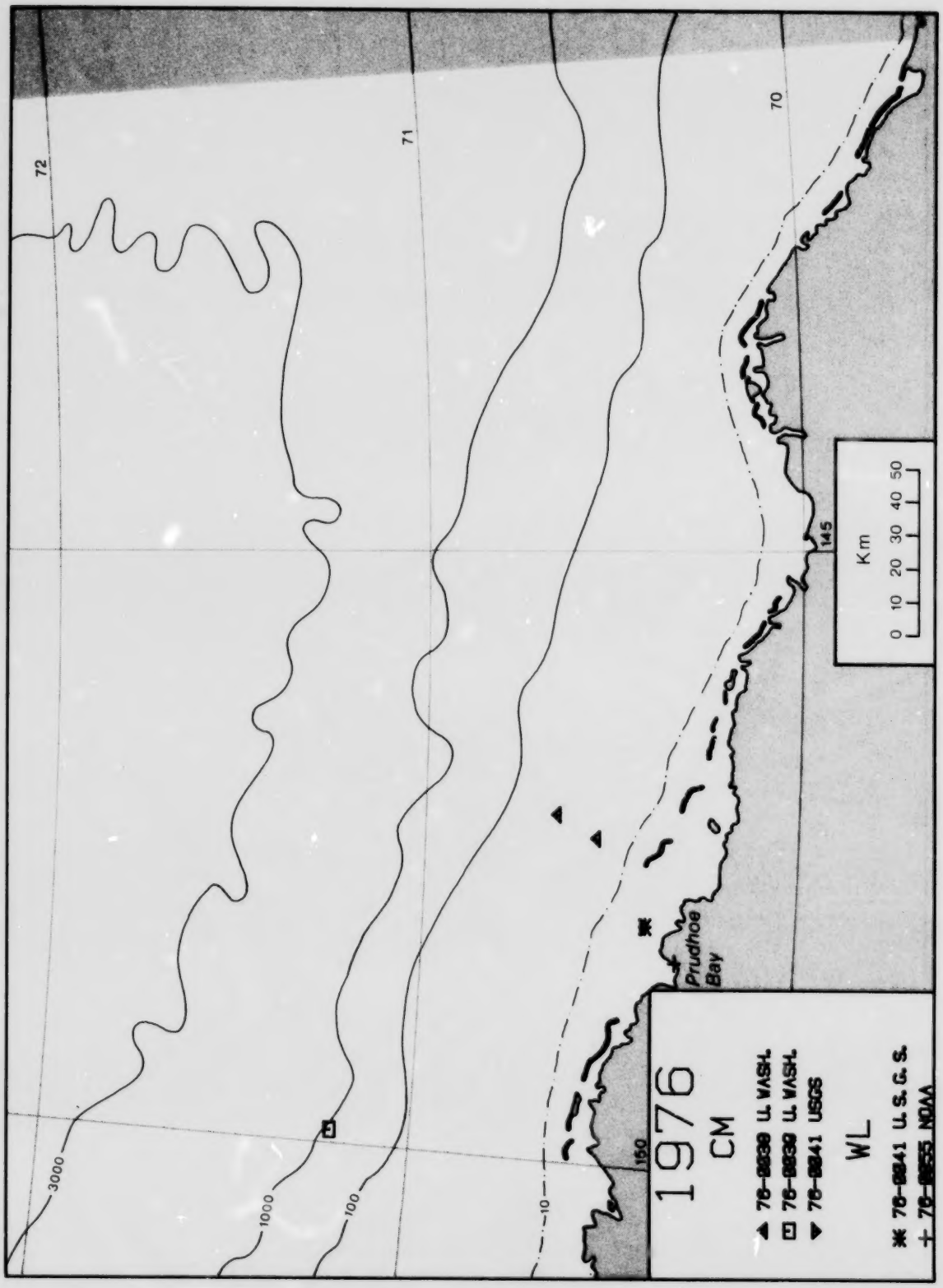

180
100
75-0067
NP-23
DEC
1975
1979
73-0034
NP-22
SEPT 1973
3000
3000
3000
1000
85
0
30
60
80
150
120
Km
0 100
1976
TS
75-0085 AIDJEX
76-0037 U. WASH
76-0039 U. WASH
76-0048 U. WASH
76-0043 APL, HELICOPTER
76-0044 APL, HELICOPTER
76-0045 ALASKA FISH & GAME
76-0046 ALASKA FISH & GAME
76-0051 LSU
76-0054 OSI, AMOCO
76-0057 GLACIER
76-0058 CRREL
DRF
76-0042 GLACIER
76-0051 LSU

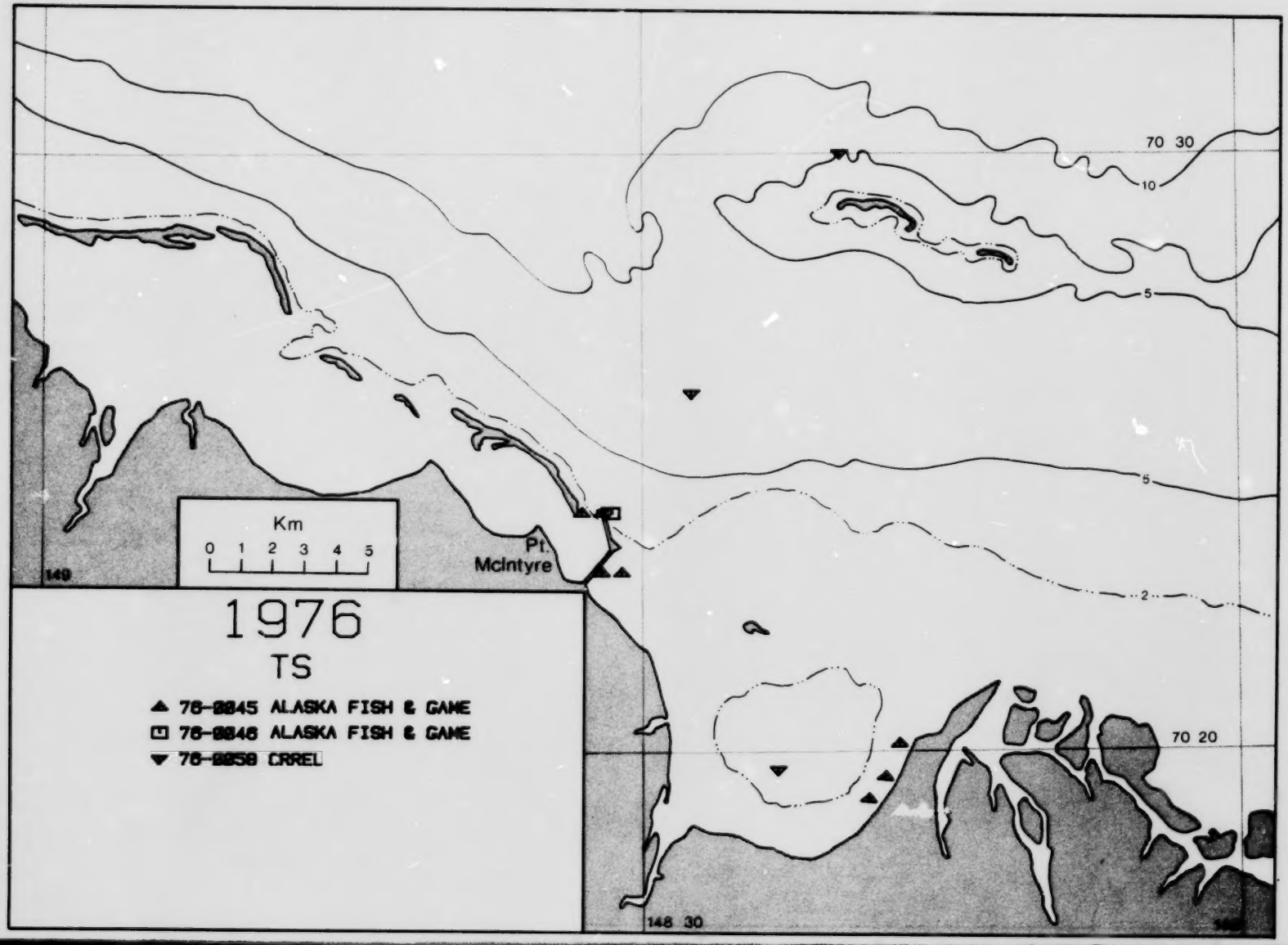

1976
CM
76-8838 U. WASH
76-8839 U. WASH
76-8848 U. WASH
76-8841 U.S.G.S.
76-8854 DSI
WL
68-8818 CHS
76-8841 USGS
76-8833 CHS ?
76-8854 DSI
76-8855 NOAA
75-0005
AIDJEX
3000
3000
3000
1000
85
80
75
90
120
150
180
Km
0 100

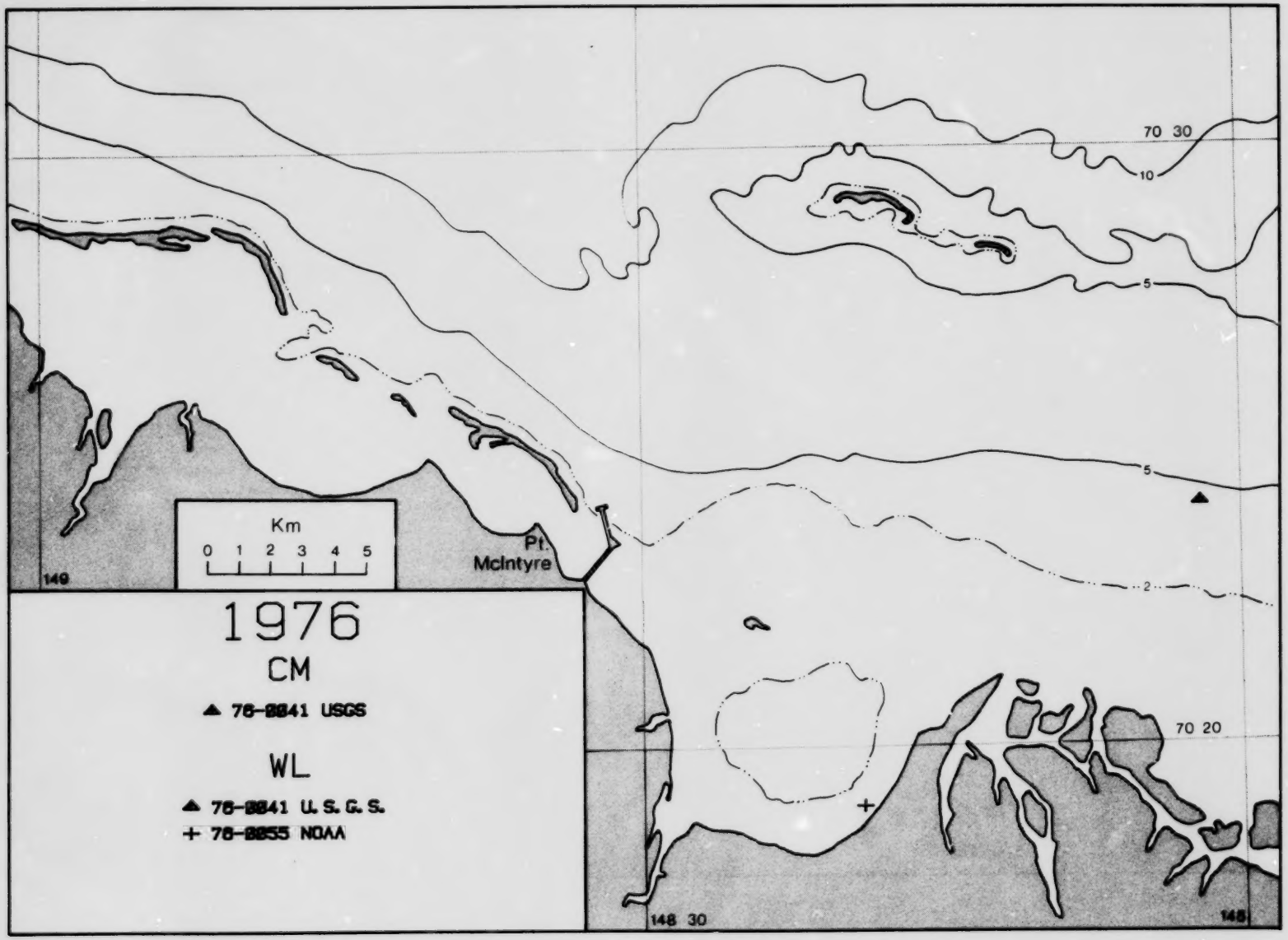

1976
TS
75-0035 AIDJEX
76-0037 UL WASH
76-0039 UL WASH
76-0040 UL WASH
76-0043 APL, HELICOPTER
76-0044 APL, HELICOPTER
76-0045 ALASKA FISH & GAME
76-0046 ALASKA FISH & GAME
76-0051 LSU
76-0054 OSI, AMOCO
76-0057 GLACIER
76-0058 CRREL
Pt. Barrow
155
145
73
72
71
70
3000
1000
100
10
Km
0 25 50 100

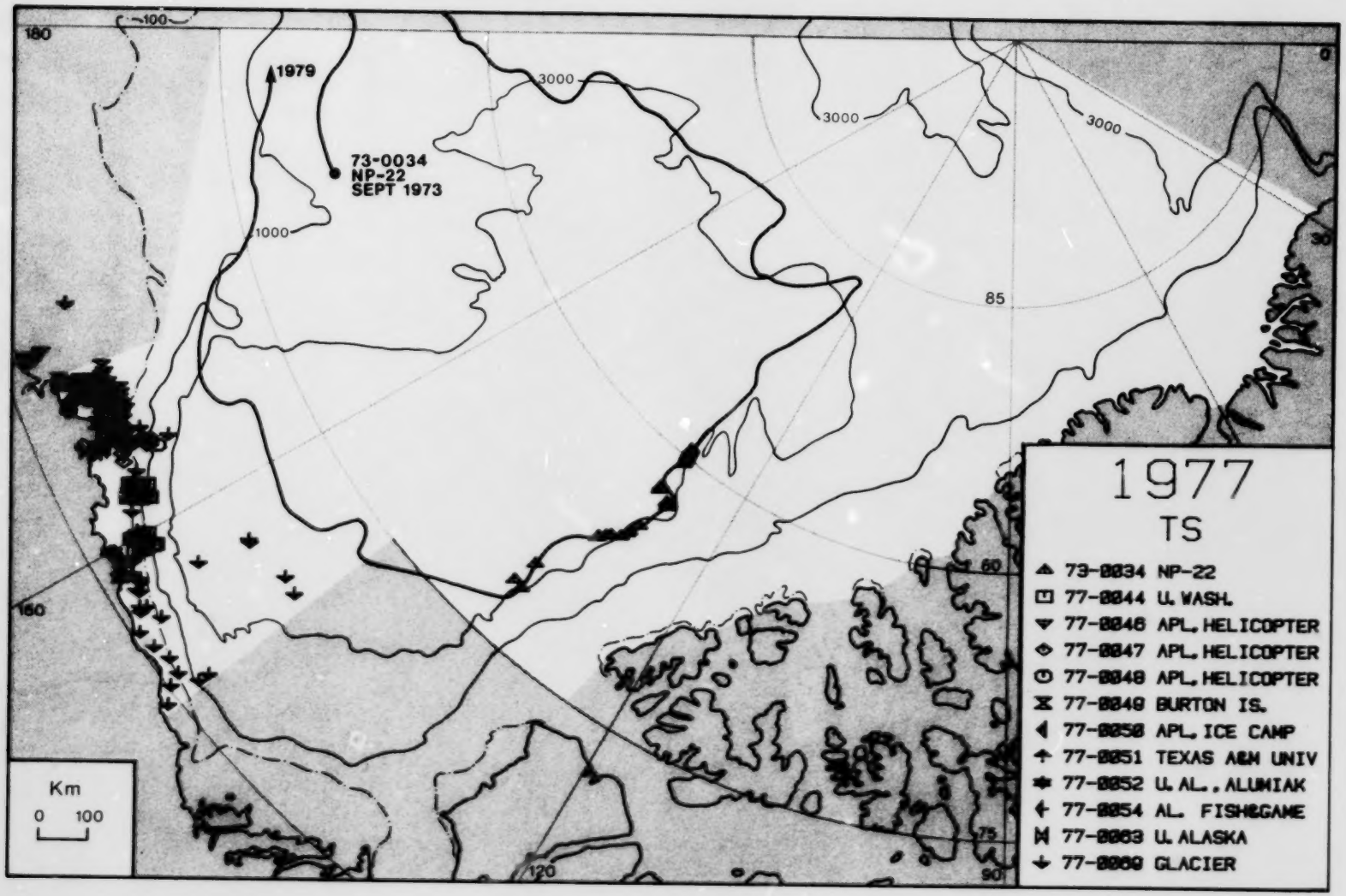

1976
TS
76-0837 U. WASH
76-0838 U. WASH
76-0848 U. WASH
76-0843 APL, HELICOPTER
76-0844 APL, HELICOPTER
76-0857 GLACIER
3000
1000
100
10
150
155
72
71
Pt. Barrow
Km
0 10 20 30 40 50

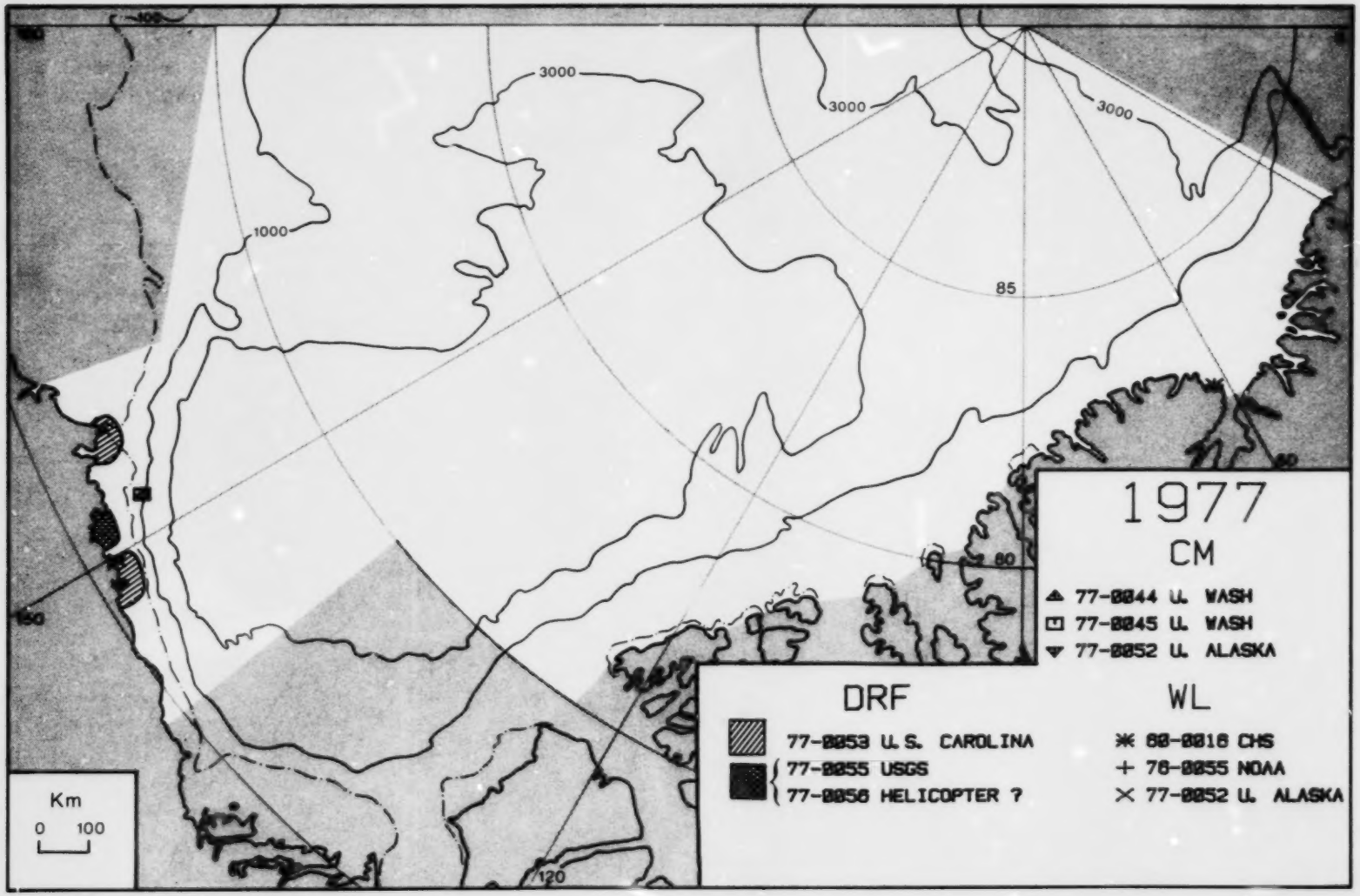

1976
TS
76-0837 U. WASH
76-0838 U. WASH
76-0848 U. WASH
76-0845 AL. FISH & GAME
76-0846 AL. FISH & GAME
76-0857 GLACIER
76-0858 CRREL
Prudhoe Bay
Km
0 10 20 30 40 50
3000
1000
100
10
72
71
70
150
145

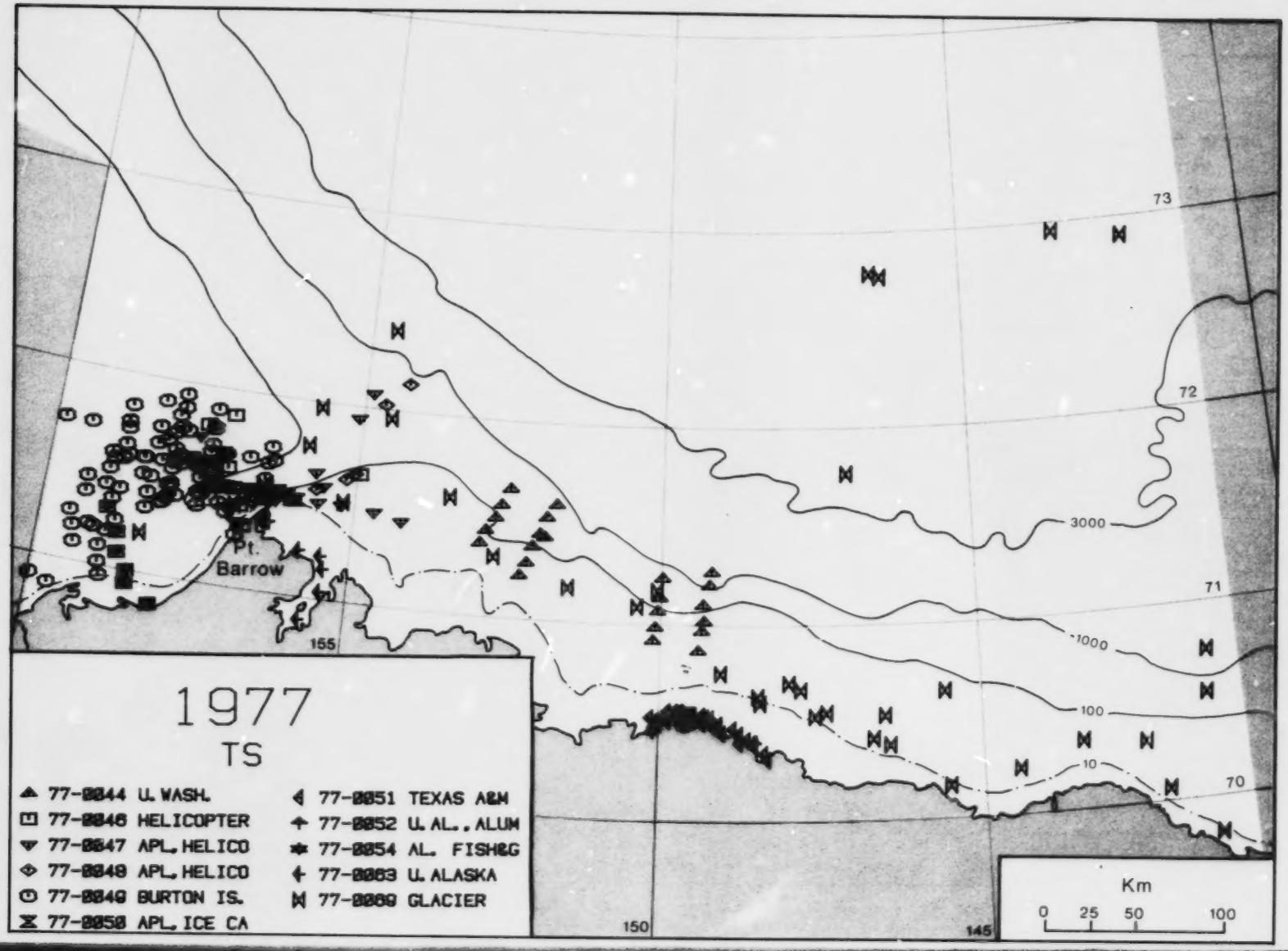

72
71
70
3000
1000
100
10
150
145
Prudhoe Bay
Km
0 10 20 30 40 50
1976
CM
▲ 76-0838 U. WASH.
⊡ 76-0839 U. WASH.
▼ 76-0841 USGS
WL
✱ 76-0841 U.S.G.S.
+ 76-0855 NOAA

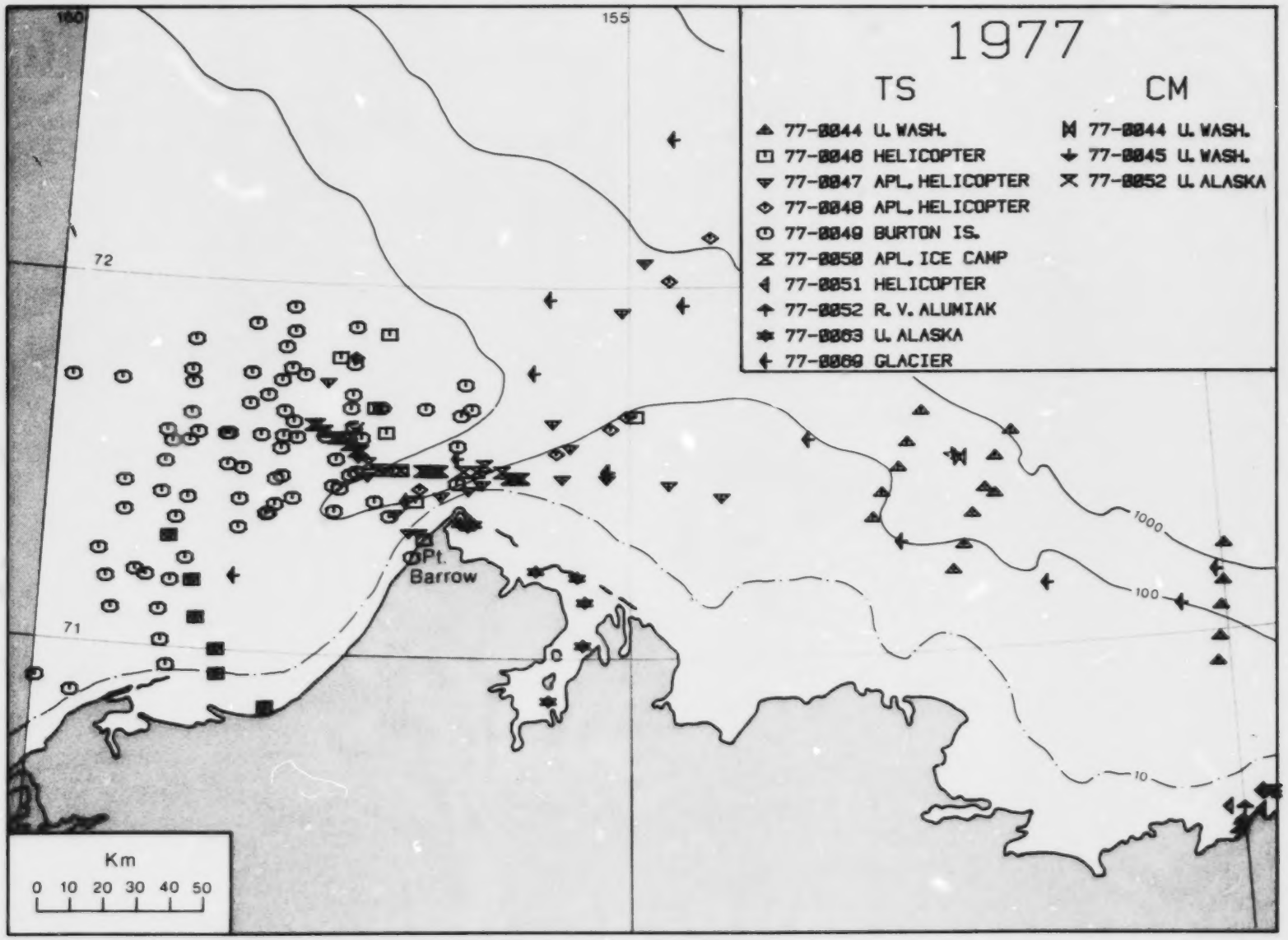

70 30
10
5
5
2
70 20
148 30
149
Km
0 1 2 3 4 5
Pt.
McIntyre
1976
TS
▲ 76-0045 ALASKA FISH & GAME
□ 76-0046 ALASKA FISH & GAME
▼ 76-0058 CRREL

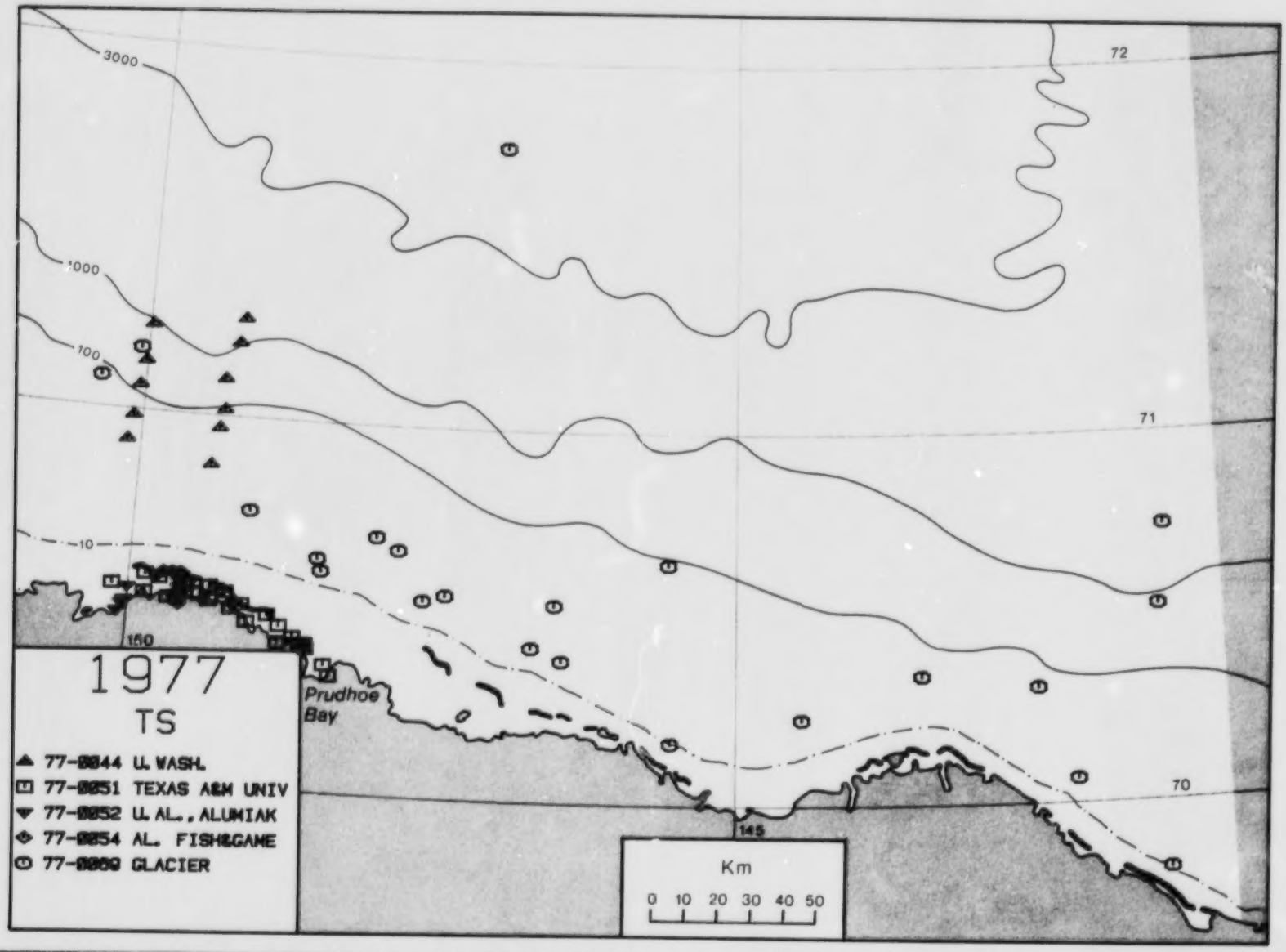

1976
CM
▲ 76-0041 USGS
WL
▲ 76-0041 U.S.G.S.
+ 76-0055 NOAA
Km
0 1 2 3 4 5
Pt. McIntyre
149
148 30
148
70 30
70 20
10
5
5
2

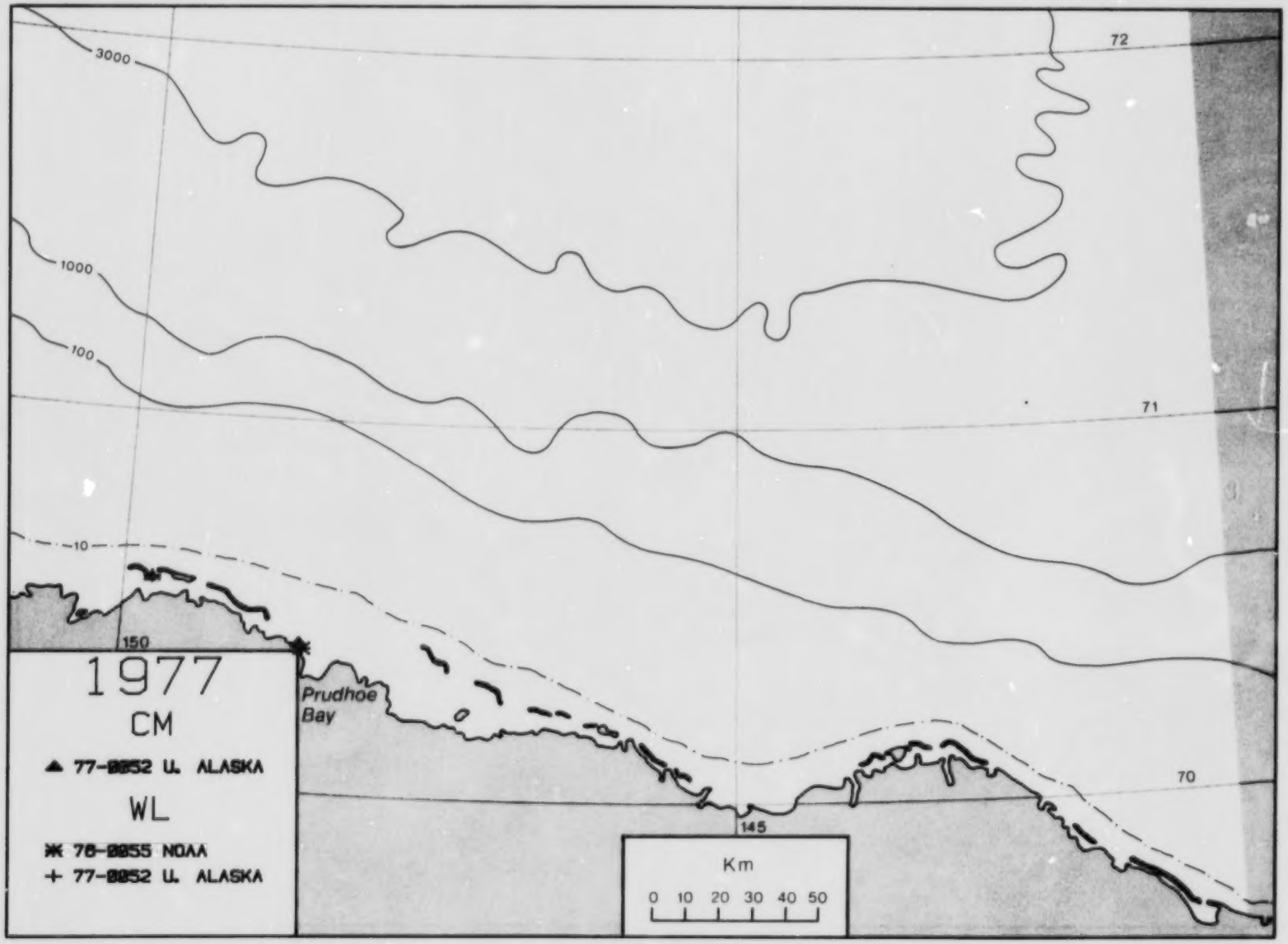

1979
73-0034
NP-22
SEPT 1973
3000
3000
3000
1000
100
180
0
30
85
60
75
90
120
160
Km
0 100
1977
TS
73-0034 NP-22
77-0044 U. WASH.
77-0046 APL. HELICOPTER
77-0047 APL. HELICOPTER
77-0048 APL. HELICOPTER
77-0049 BURTON IS.
77-0050 APL. ICE CAMP
77-0051 TEXAS A&M UNIV
77-0052 U. AL., ALUMIAK
77-0054 AL. FISH&GAME
77-0063 U. ALASKA
77-0069 GLACIER

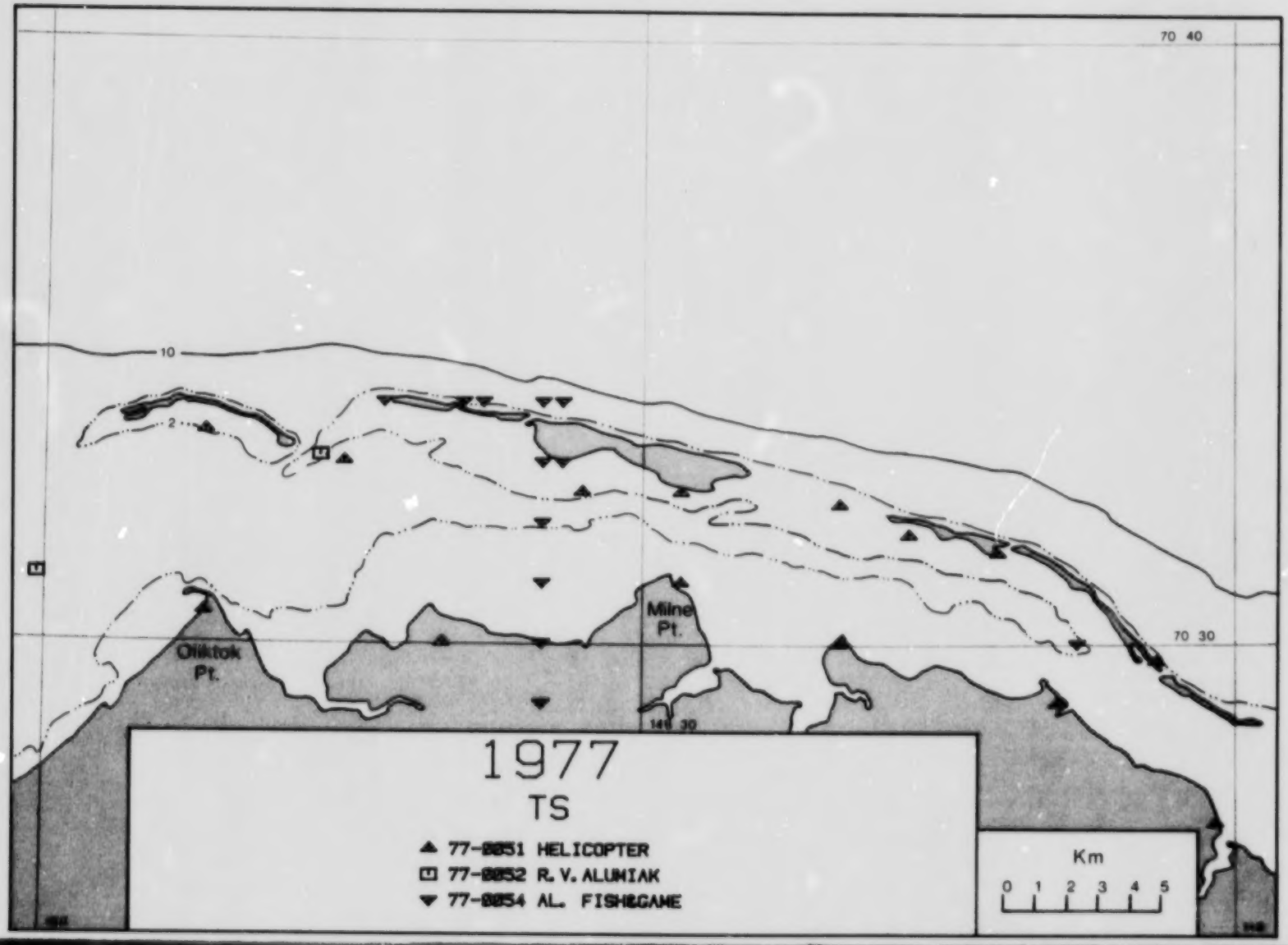

3000
3000
3000
1000
85
80
80
150
120
Km
0 100
1977
CM
77-0044 U. WASH
77-0045 U. WASH
77-0052 U. ALASKA
DRF
77-0053 U.S. CAROLINA
77-0055 USGS
77-0056 HELICOPTER ?
WL
80-0016 CHS
76-0055 NOAA
77-0052 U. ALASKA

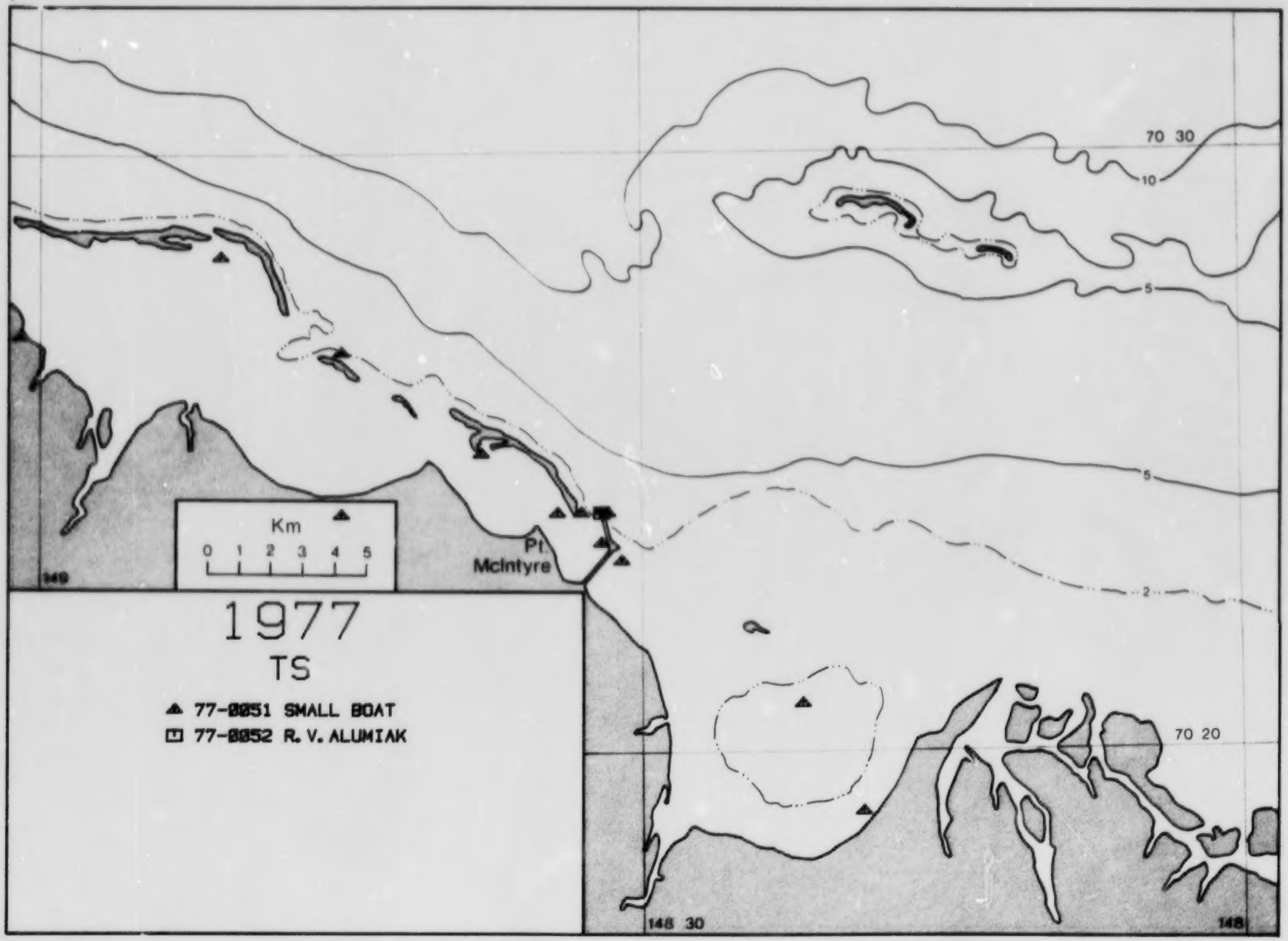

1977
TS
77-0044 U. WASH.
77-0046 HELICOPTER
77-0047 APL. HELICO
77-0048 APL. HELICO
77-0049 BURTON IS.
77-0050 APL. ICE CA
77-0051 TEXAS A&M
77-0052 U. AL., ALUM
77-0054 AL. FISH&G
77-0063 U. ALASKA
77-0069 GLACIER
Pt. Barrow
155
150
145
73
72
71
70
3000
1000
100
10
Km
0 25 50 100

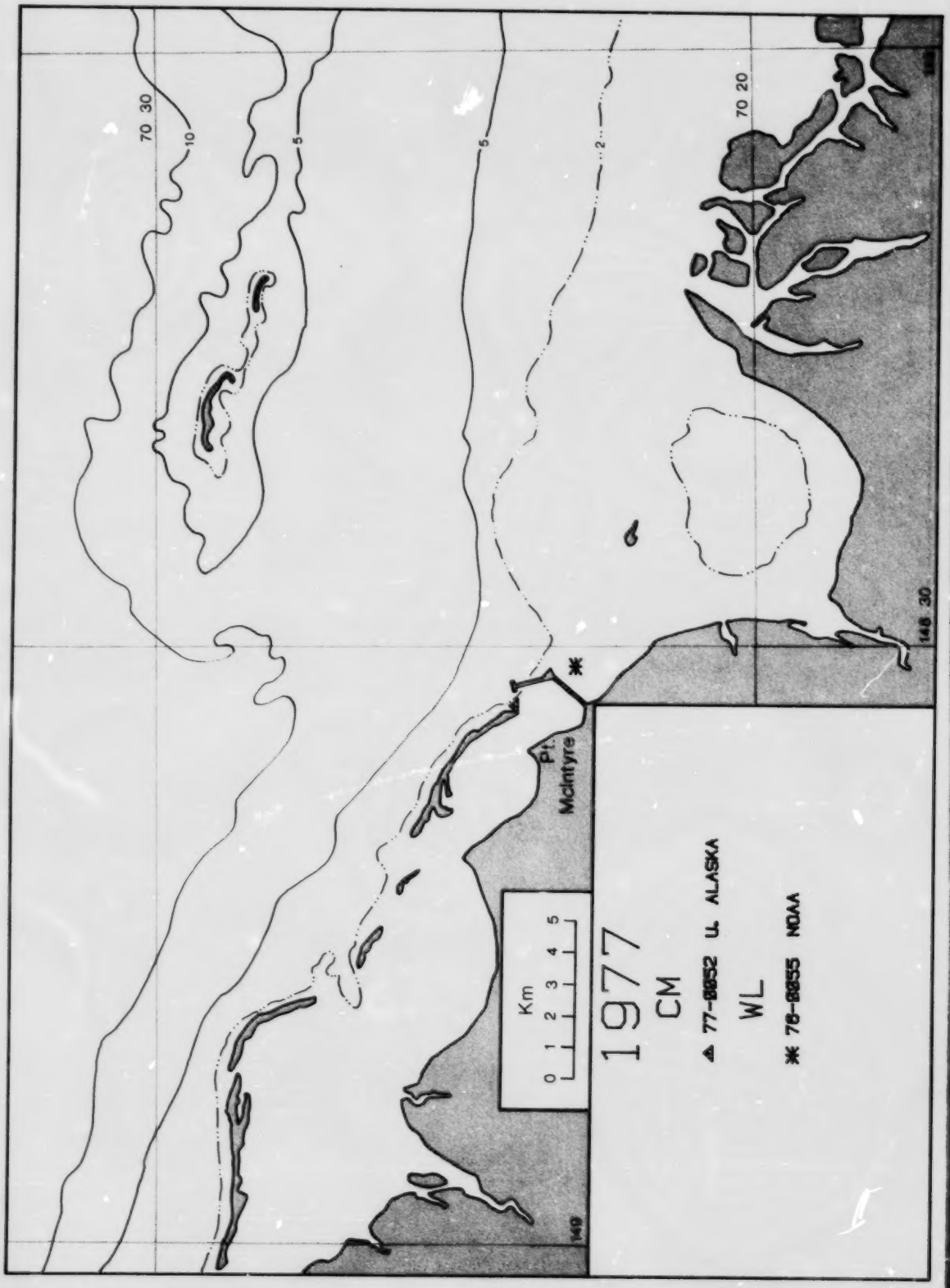

1977
TS
CM
77-0044 U. WASH.
77-0046 HELICOPTER
77-0047 APL. HELICOPTER
77-0048 APL. HELICOPTER
77-0049 BURTON IS.
77-0050 APL. ICE CAMP
77-0051 HELICOPTER
77-0052 R. V. ALUMIAK
77-0063 U. ALASKA
77-0069 GLACIER
77-0044 U. WASH.
77-0045 U. WASH.
77-0052 U. ALASKA
160
155
72
71
Pt. Barrow
1000
100
10
Km
0 10 20 30 40 50

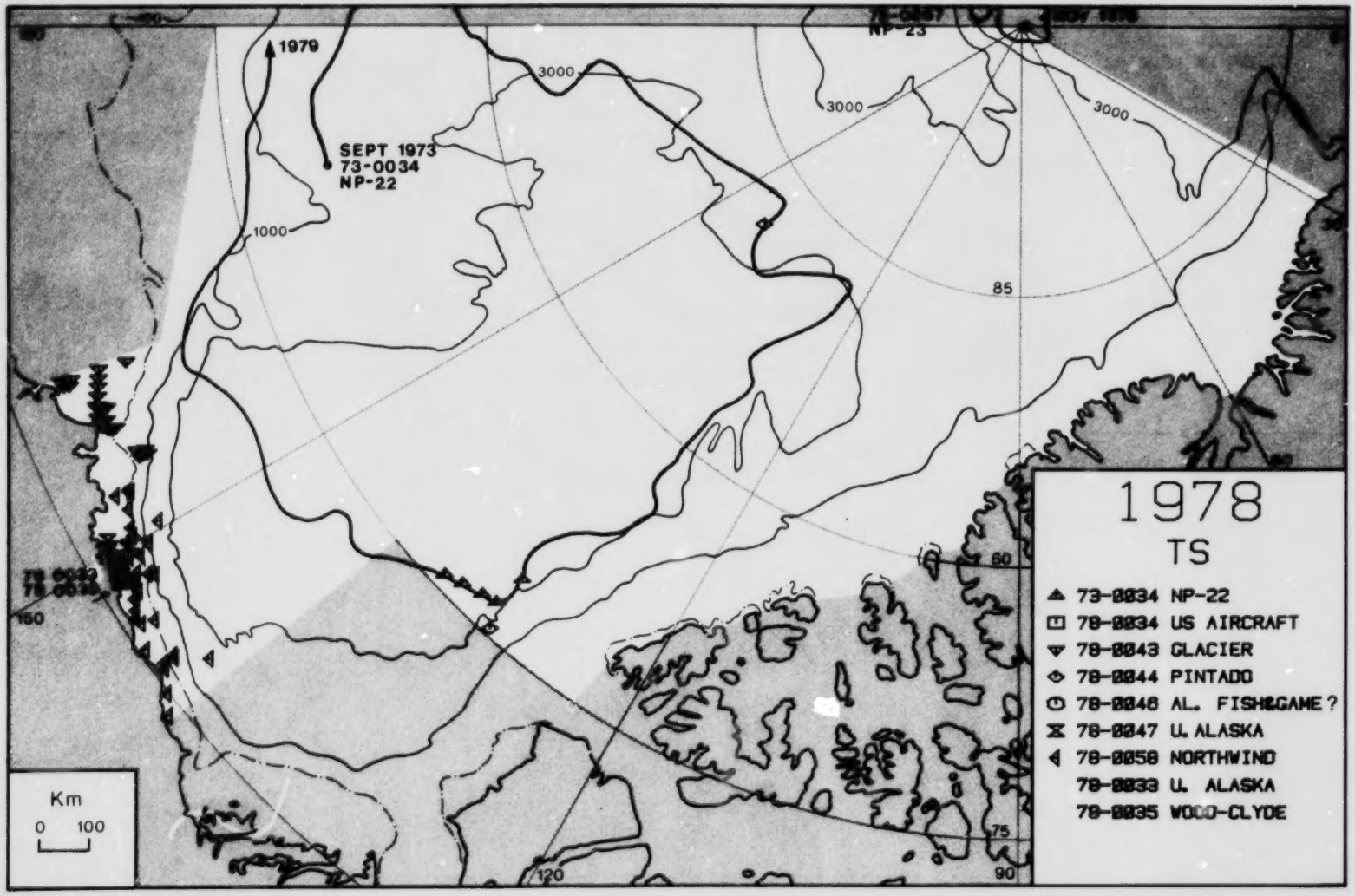

1977
TS
77-0844 U. WASH.
77-0851 TEXAS A&M UNIV
77-0852 U. AL., ALUMIAK
77-0854 AL. FISH&GAME
77-0869 GLACIER
3000
1000
100
10
72
71
70
150
145
Prudhoe Bay
Km
0 10 20 30 40 50

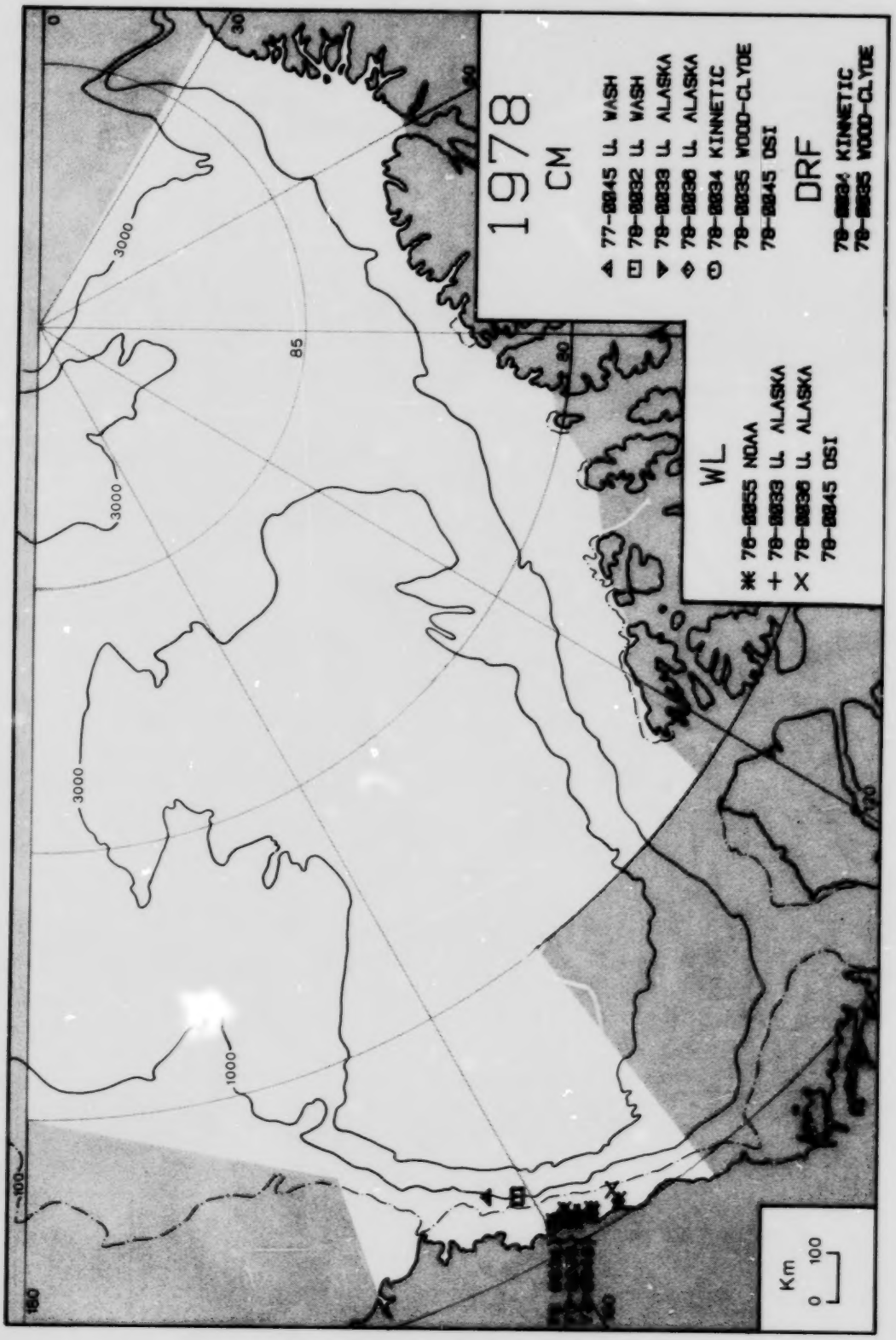

1977
CM
▲ 77-0052 U. ALASKA
WL
✱ 76-0055 NOAA
+ 77-0052 U. ALASKA
Prudhoe Bay
3000
1000
100
10
72
71
70
150
145
Km
0 10 20 30 40 50

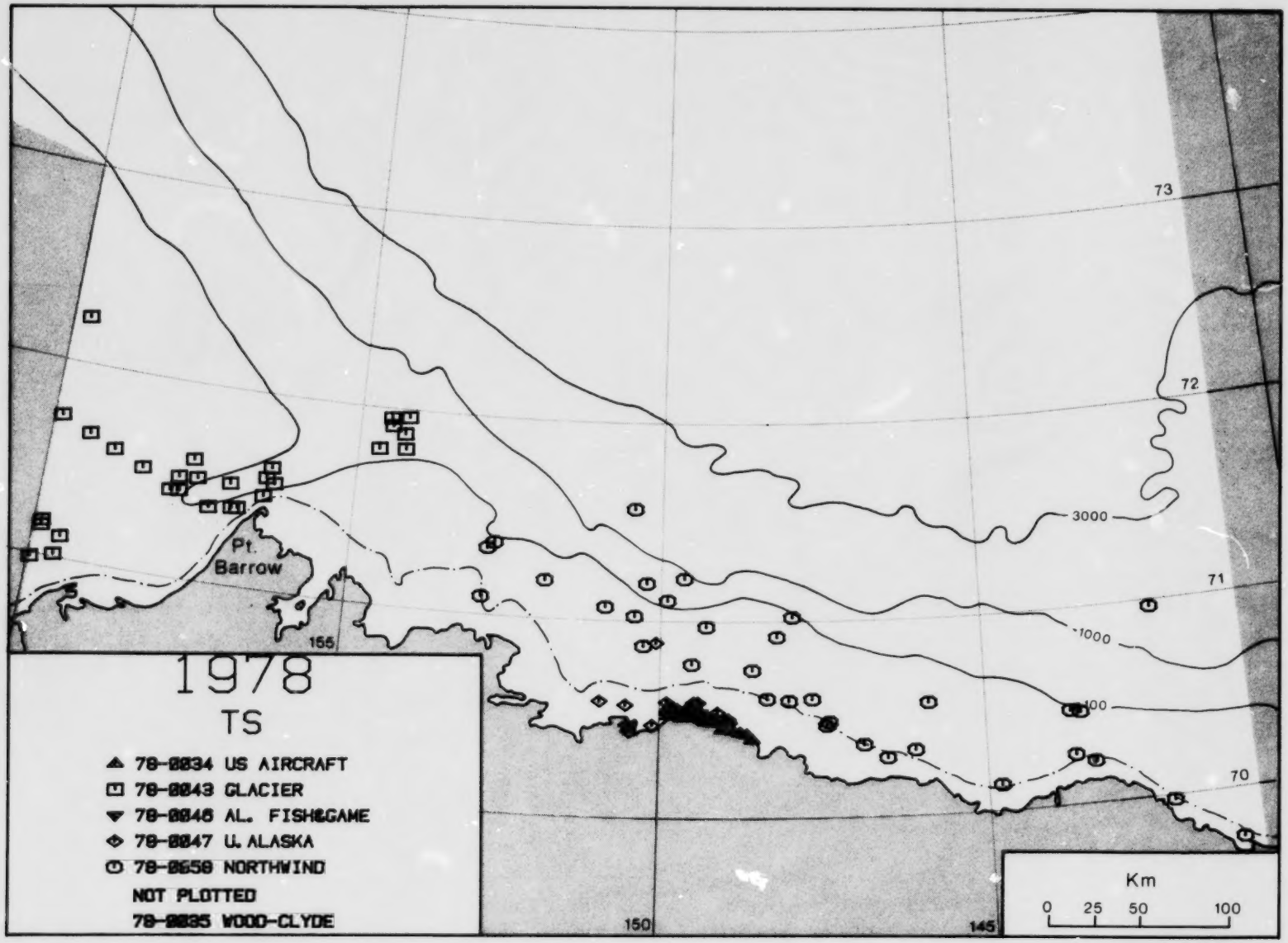

70 40
10
2
Oliktok Pt.
Milne Pt.
70 30
1977
TS
77-0051 HELICOPTER
77-0052 R.V. ALUMIAK
77-0054 AL. FISH&GAME
Km
0 1 2 3 4 5

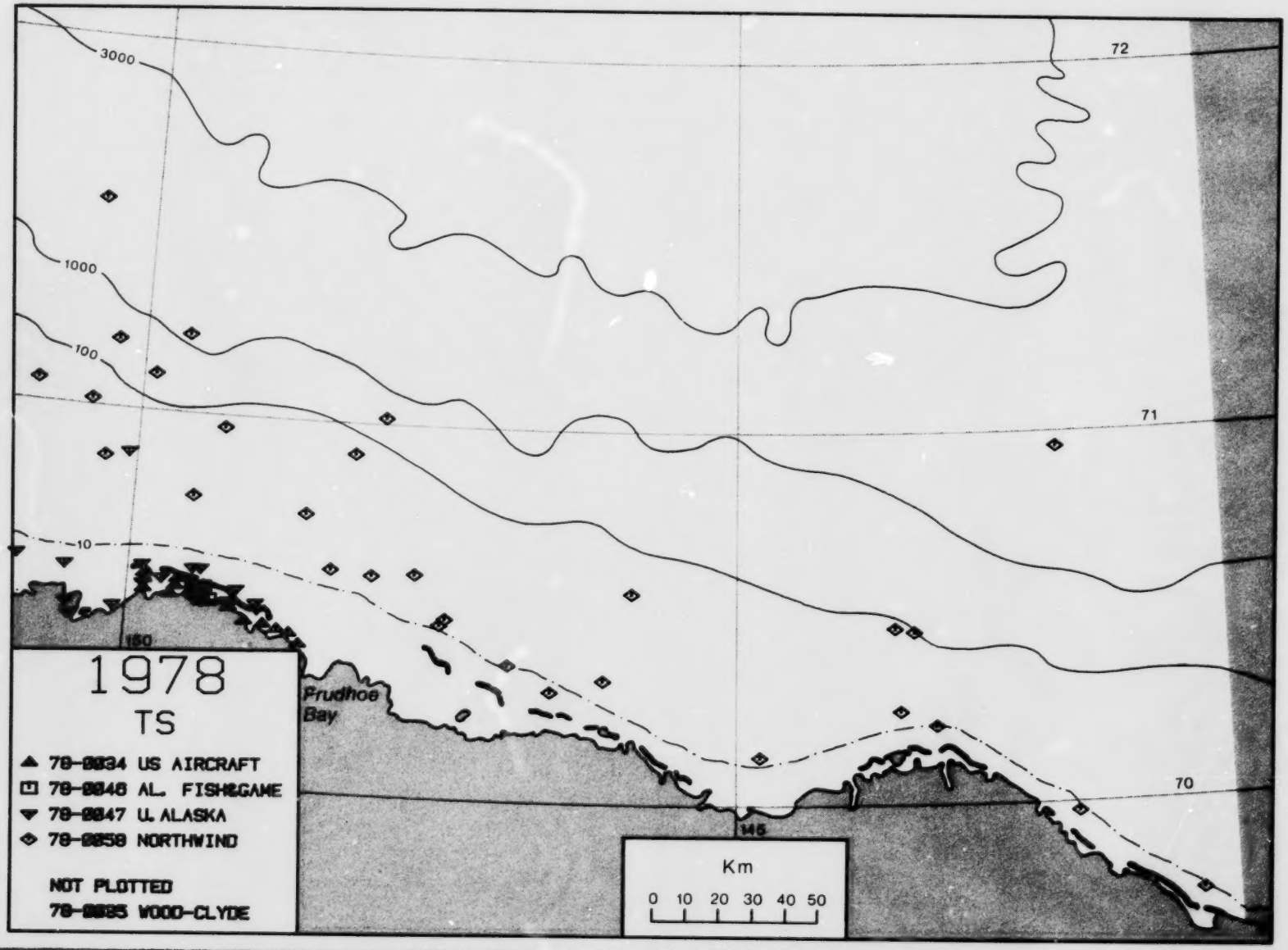

70 30
10
5
5
2
70 20
Km
0 1 2 3 4 5
Pt
McIntyre
149
148 30
148
1977
TS
77-0051 SMALL BOAT
77-0052 R. V. ALUMIAK

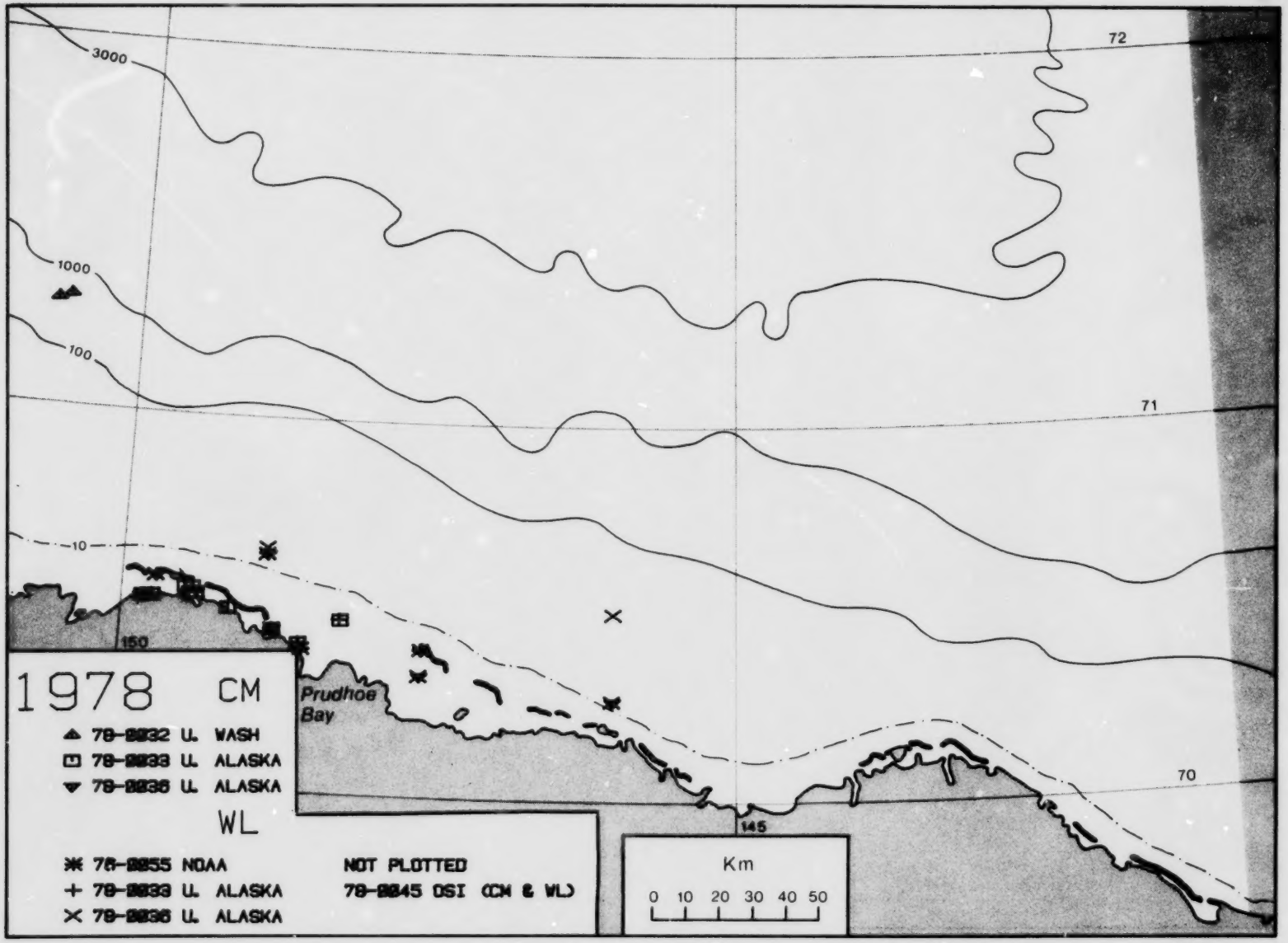

70 30
10
5
5
2
70 20
Pt. McIntyre
140
148 30
Km
0 1 2 3 4 5
1977
CM
▲ 77-8852 U. ALASKA
WL
✱ 76-8855 NOAA

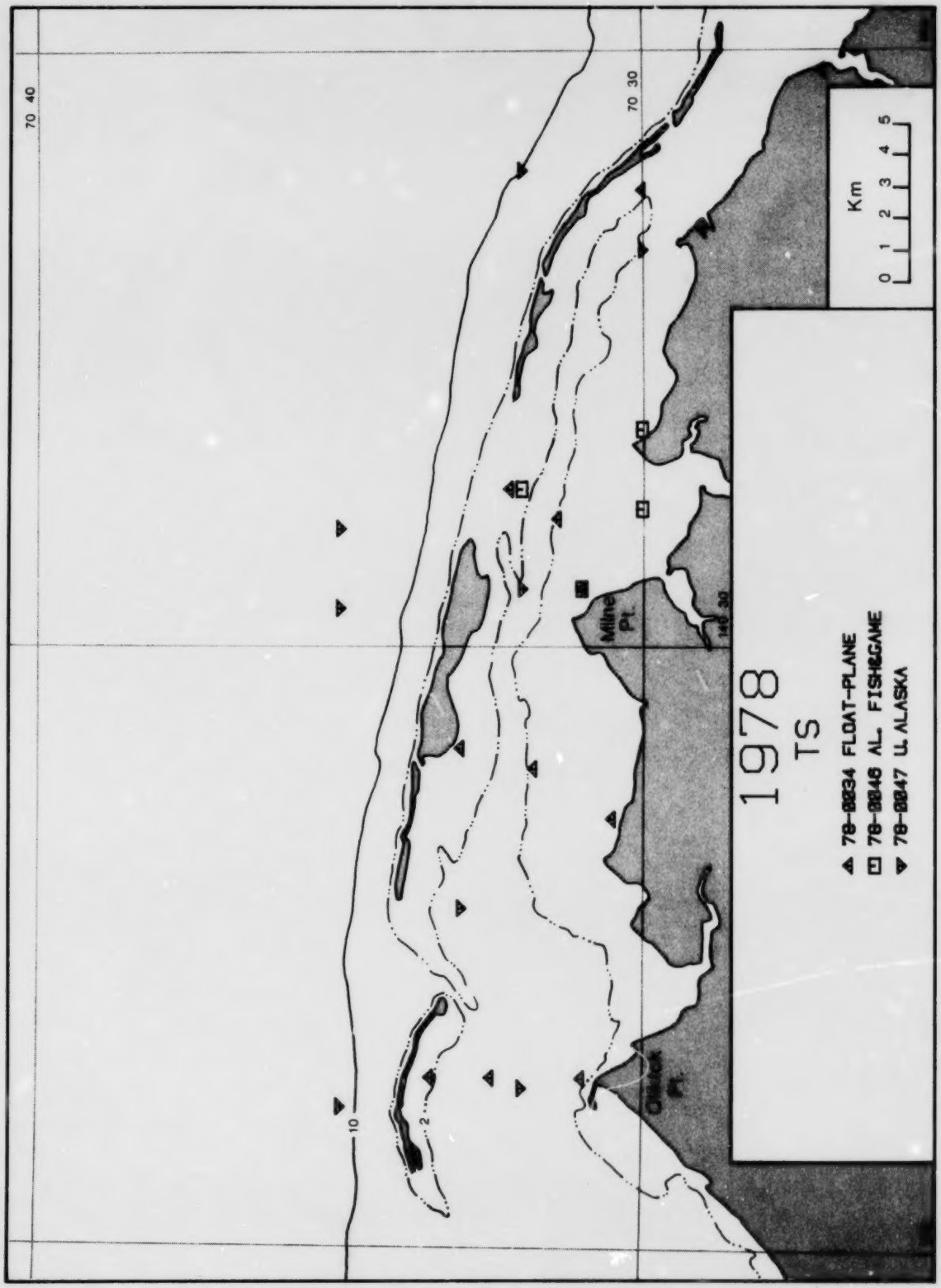

1979
SEPT 1973
73-0034
NP-22
NP-23
3000
3000
3000
1000
85
80
75
90
120
150
Km
0 100
1978
TS
73-0034 NP-22
78-0034 US AIRCRAFT
78-0043 GLACIER
78-0044 PINTADO
78-0046 AL. FISH&GAME?
78-0047 U. ALASKA
78-0058 NORTHWIND
78-0033 U. ALASKA
78-0035 WOOD-CLYDE

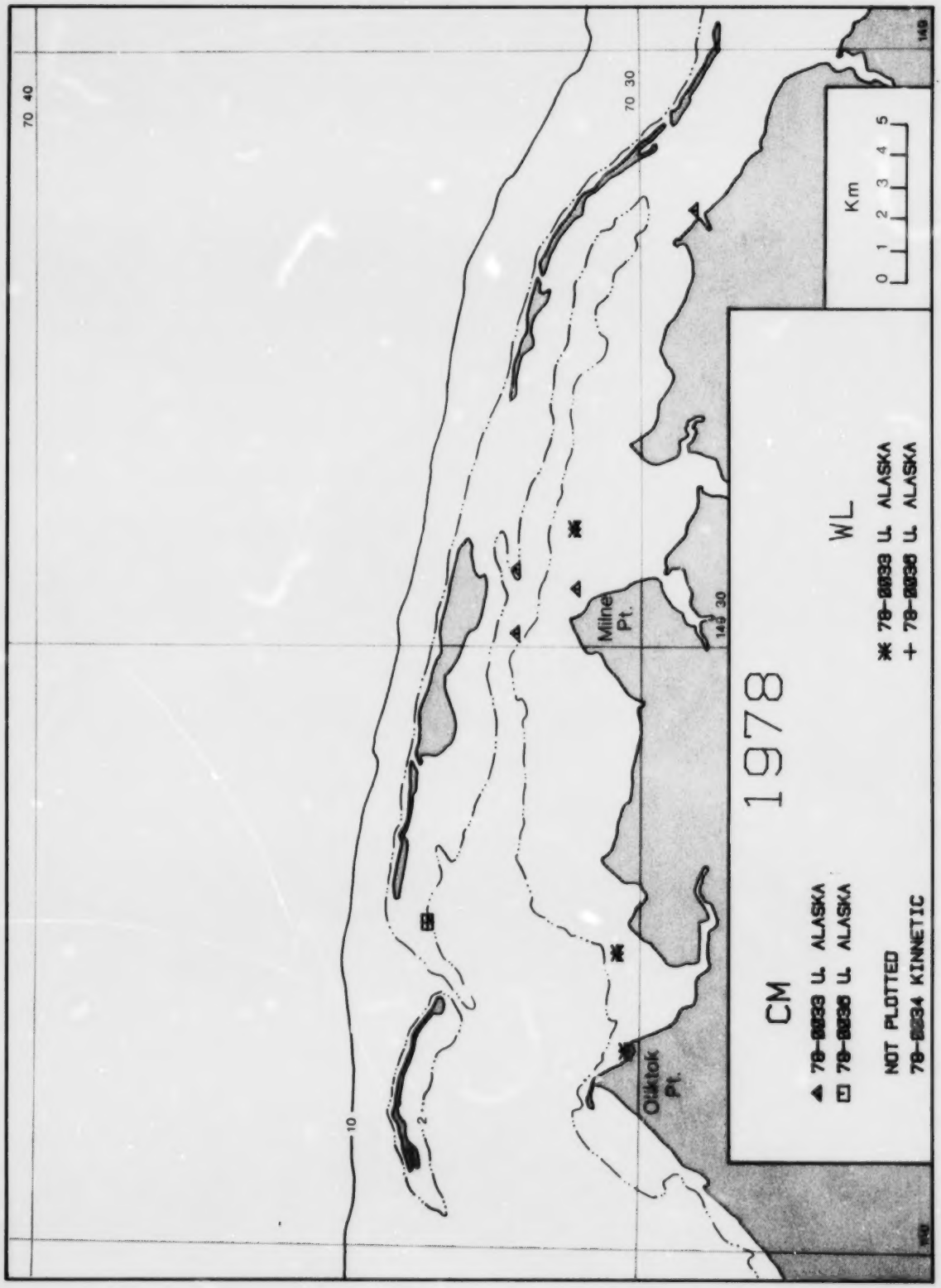

1978
CM
77-0045 U. WASH
78-0032 U. WASH
78-0033 U. ALASKA
78-0036 U. ALASKA
78-0034 KINNETIC
78-0035 WOOD-CLYDE
78-0045 OSI
DRF
78-0034 KINNETIC
78-0035 WOOD-CLYDE
WL
76-0055 NOAA
78-0033 U. ALASKA
78-0036 U. ALASKA
78-0045 OSI
Km
0 100
3000
1000
85
80
30
0
100
150

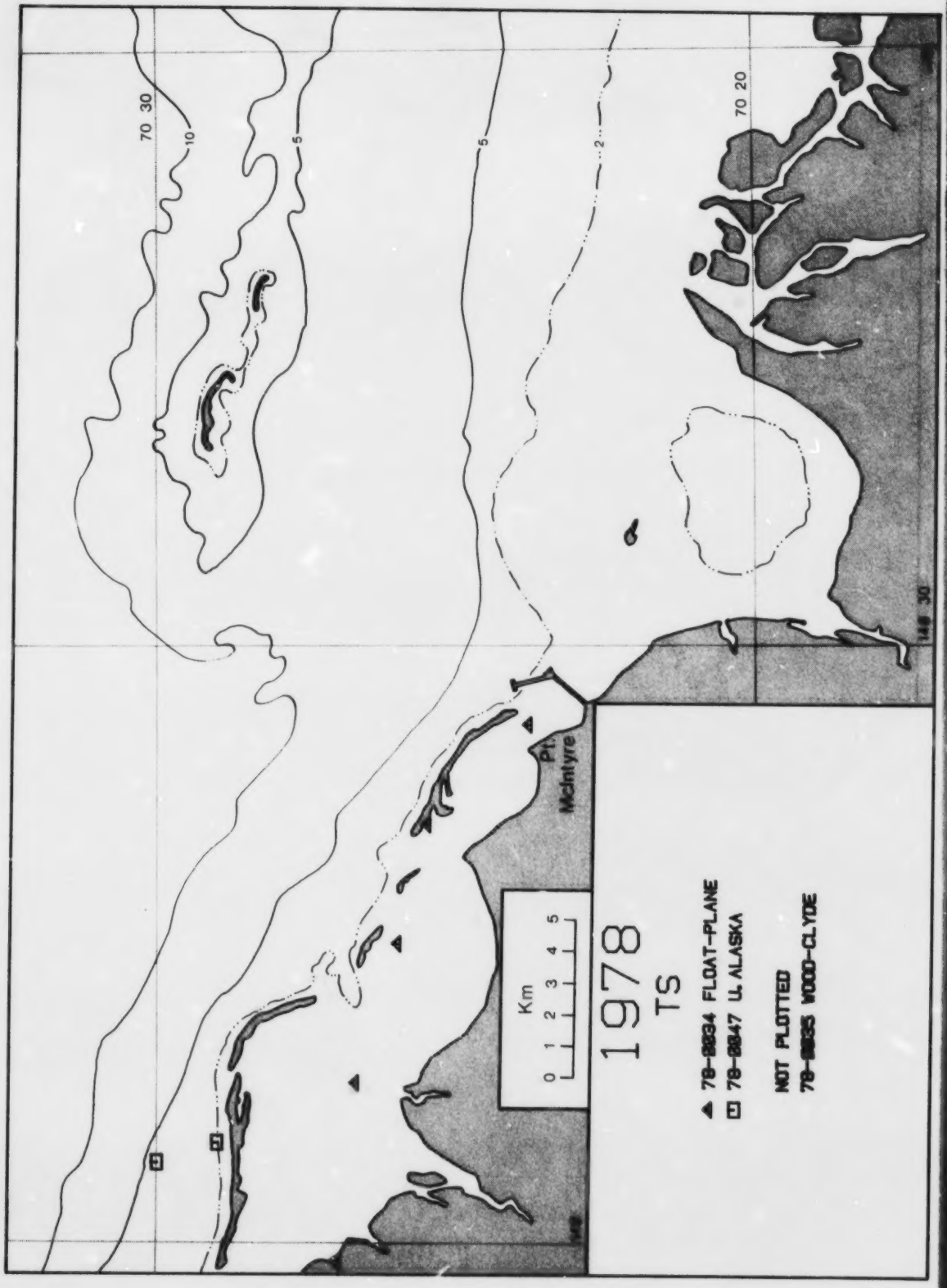

1978
TS
78-0034 US AIRCRAFT
78-0043 GLACIER
78-0046 AL. FISH&GAME
78-0047 U. ALASKA
78-0058 NORTHWIND
NOT PLOTTED
78-0035 WOOD-CLYDE
Pt. Barrow
155
150
145
73
72
71
70
3000
1000
100
Km
0 25 50 100

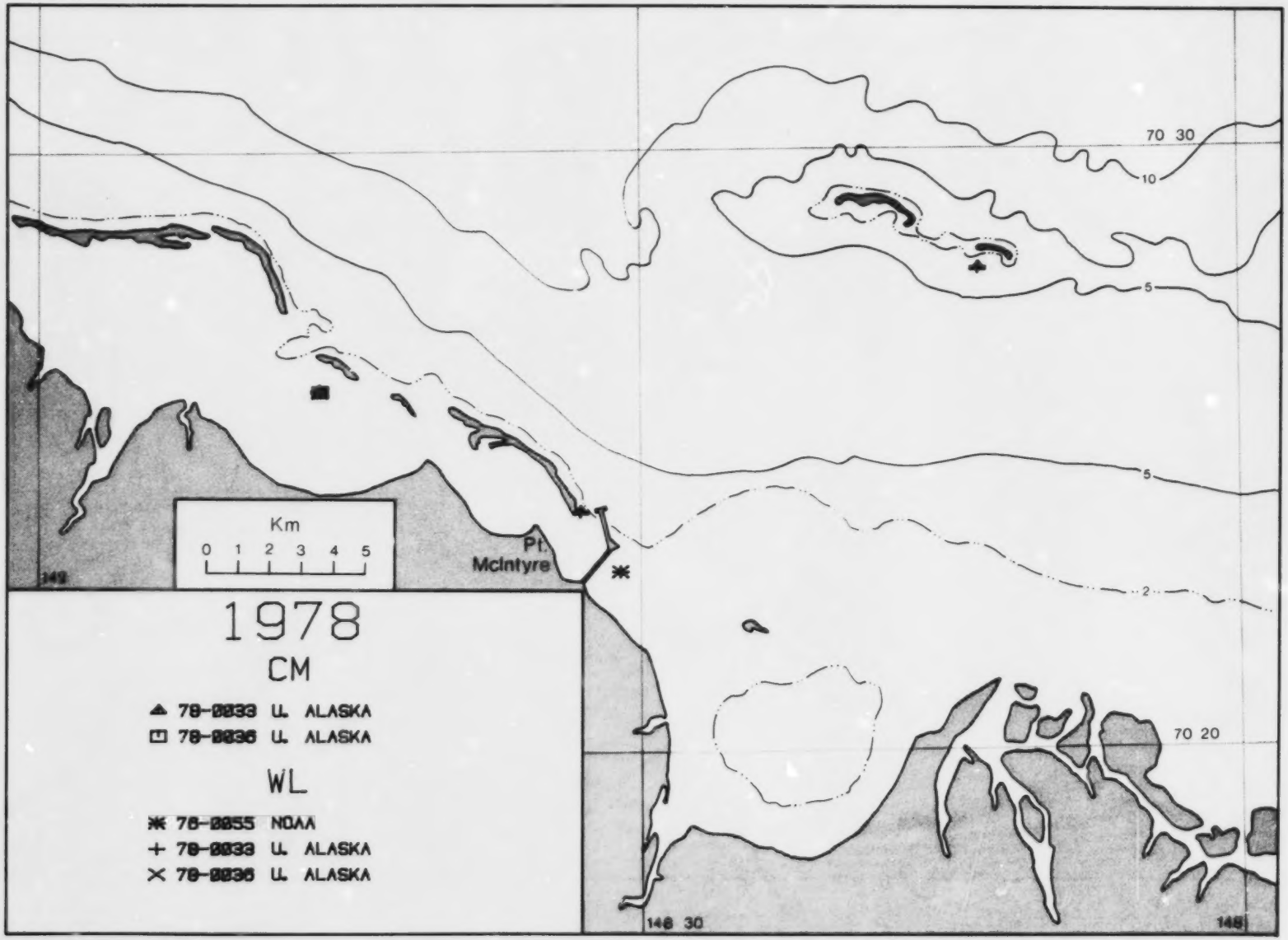

1978
TS
78-0034 US AIRCRAFT
78-0046 AL. FISH&GAME
78-0047 U. ALASKA
78-0058 NORTHWIND
NOT PLOTTED
78-0085 WOOD-CLYDE
3000
1000
100
10
72
71
70
160
145
Prudhoe Bay
Km
0 10 20 30 40 50

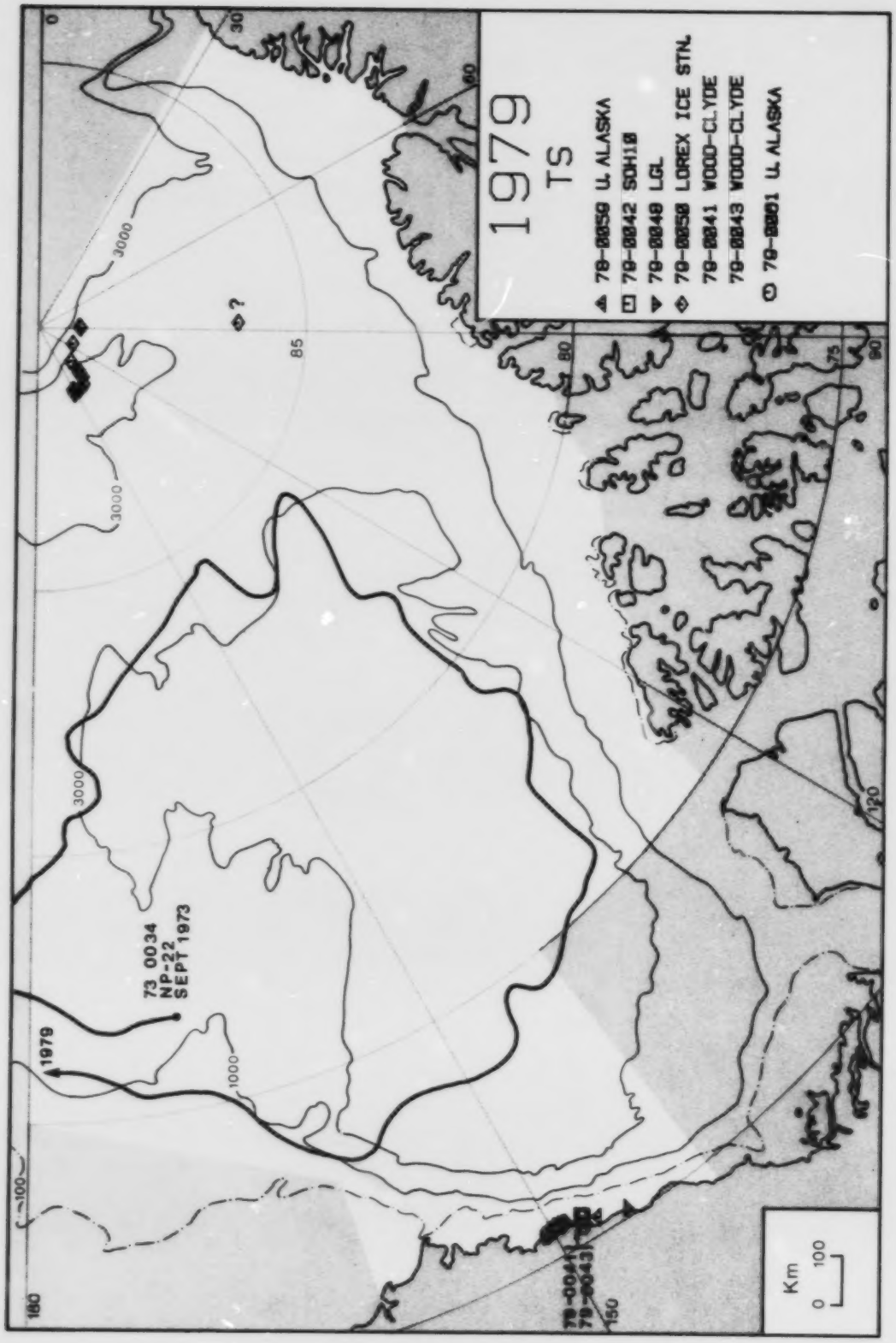

3000
1000
100
10
72
71
70
150
145
Prudhoe Bay
1978 CM
78-0032 U. WASH
78-0033 U. ALASKA
78-0036 U. ALASKA
WL
78-0055 NOAA
78-0033 U. ALASKA
78-0036 U. ALASKA
NOT PLOTTED
78-0045 OSI (CM & WL)
Km
0 10 20 30 40 50

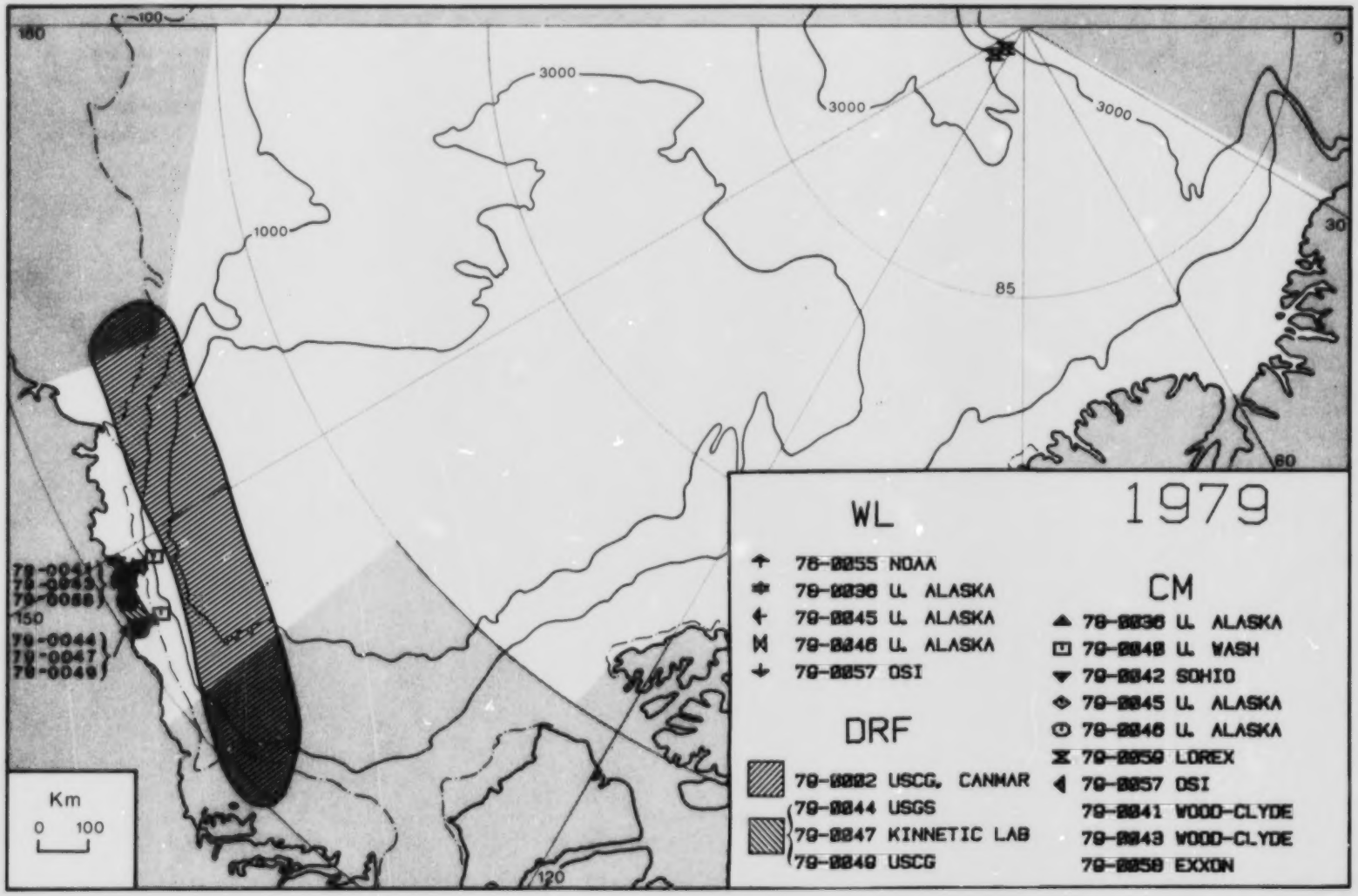

70 40
70 30
10
2
Milne Pt.
Oliktok Pt.
140 30
Km
0 1 2 3 4 5
1978
TS
78-0834 FLOAT-PLANE
78-0846 AL. FISHGAME
78-0847 U. ALASKA

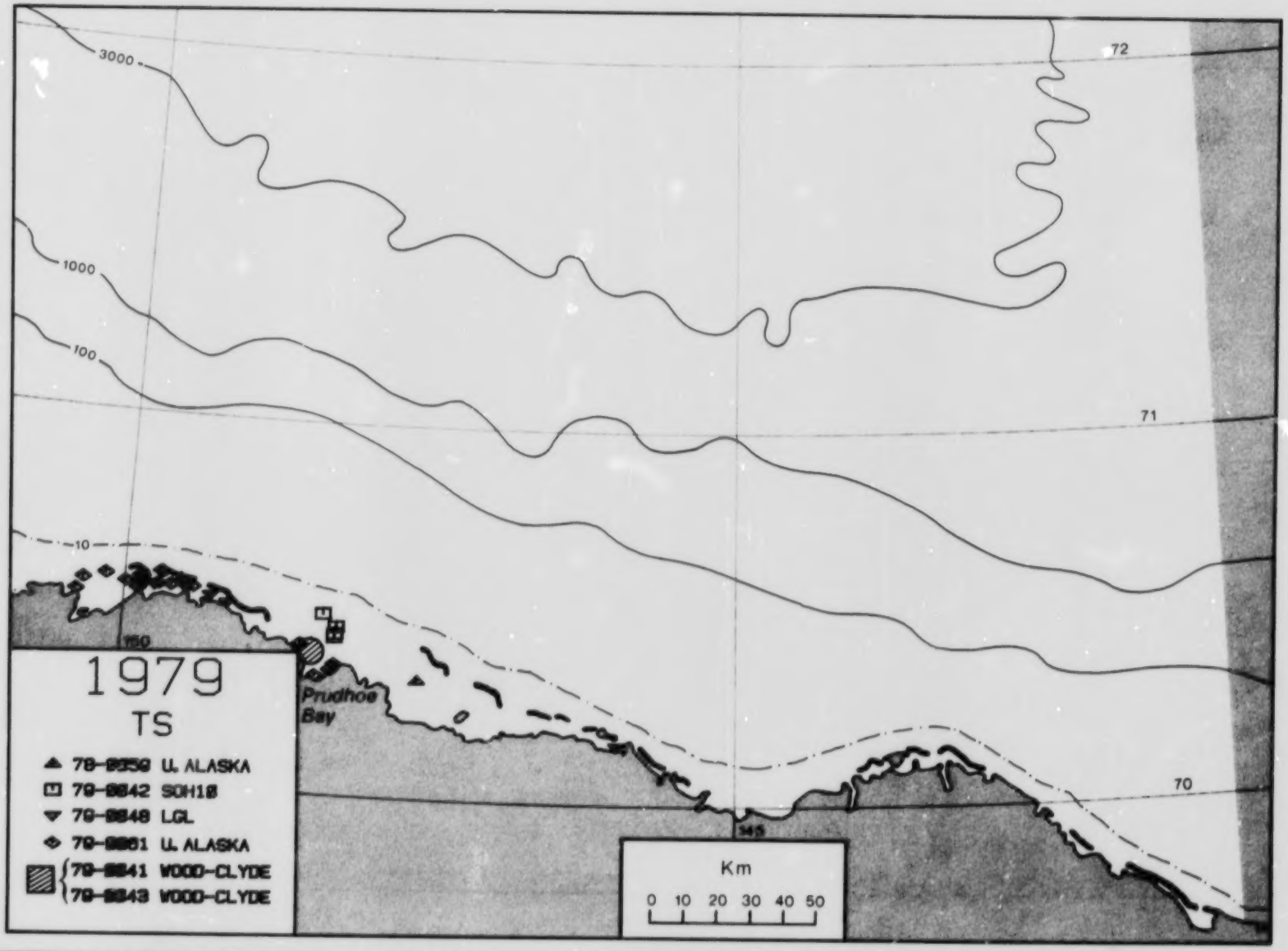

70 40
70 30
10
2
Milne Pt.
Oliktok Pt.
145 30
Km
0 1 2 3 4 5
CM
1978
WL
▲ 78-0033 U. ALASKA
⊡ 78-0036 U. ALASKA
NOT PLOTTED
78-0034 KINNETIC
✱ 78-0033 U. ALASKA
+ 78-0036 U. ALASKA

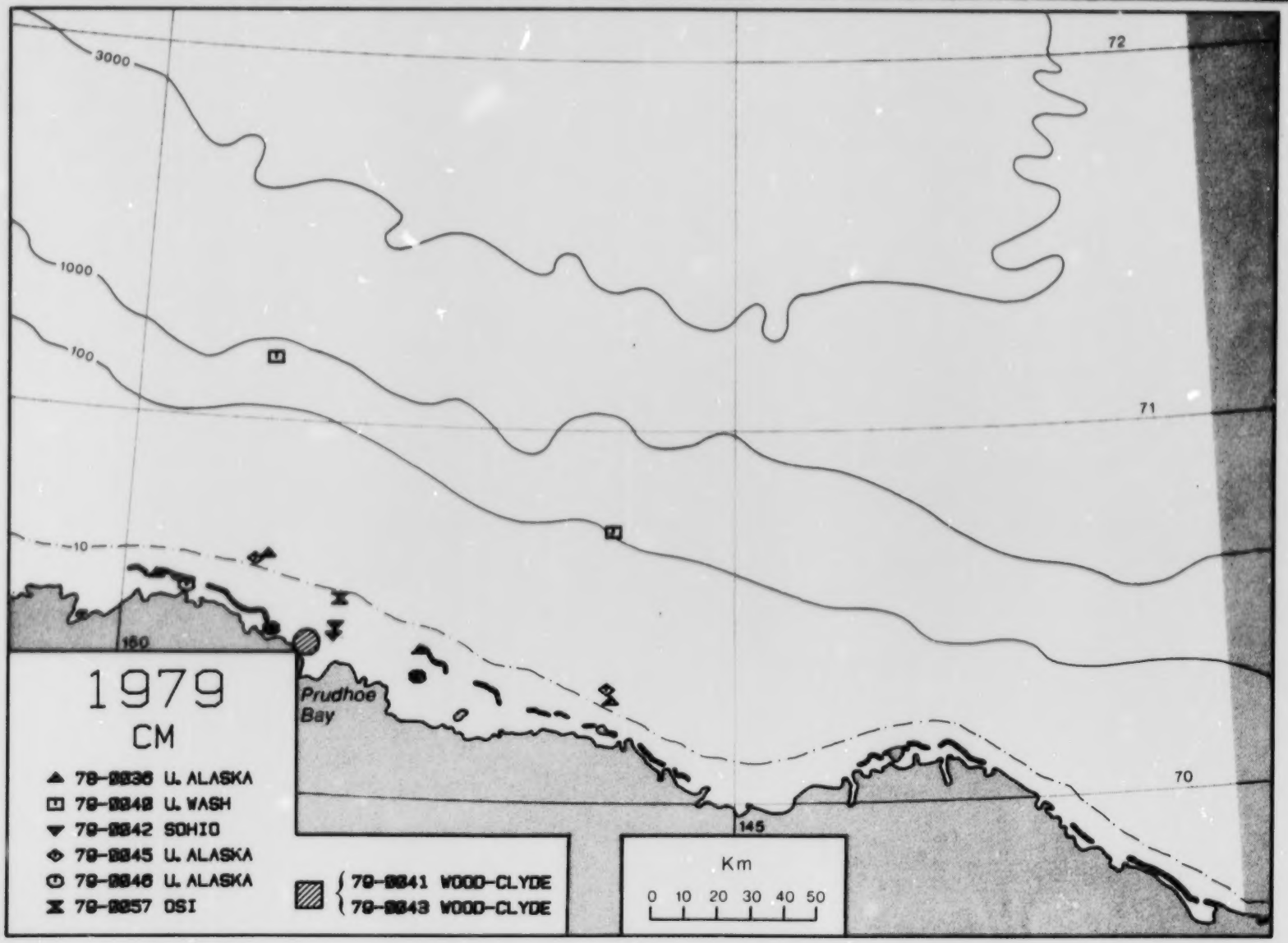

70 30
10
5
5
2
70 20
148 30
Pt. McIntyre
Km
0 1 2 3 4 5
1978
TS
▲ 78-8834 FLOAT-PLANE
⊡ 78-8847 U. ALASKA
NOT PLOTTED
78-8835 WOOD-CLYDE

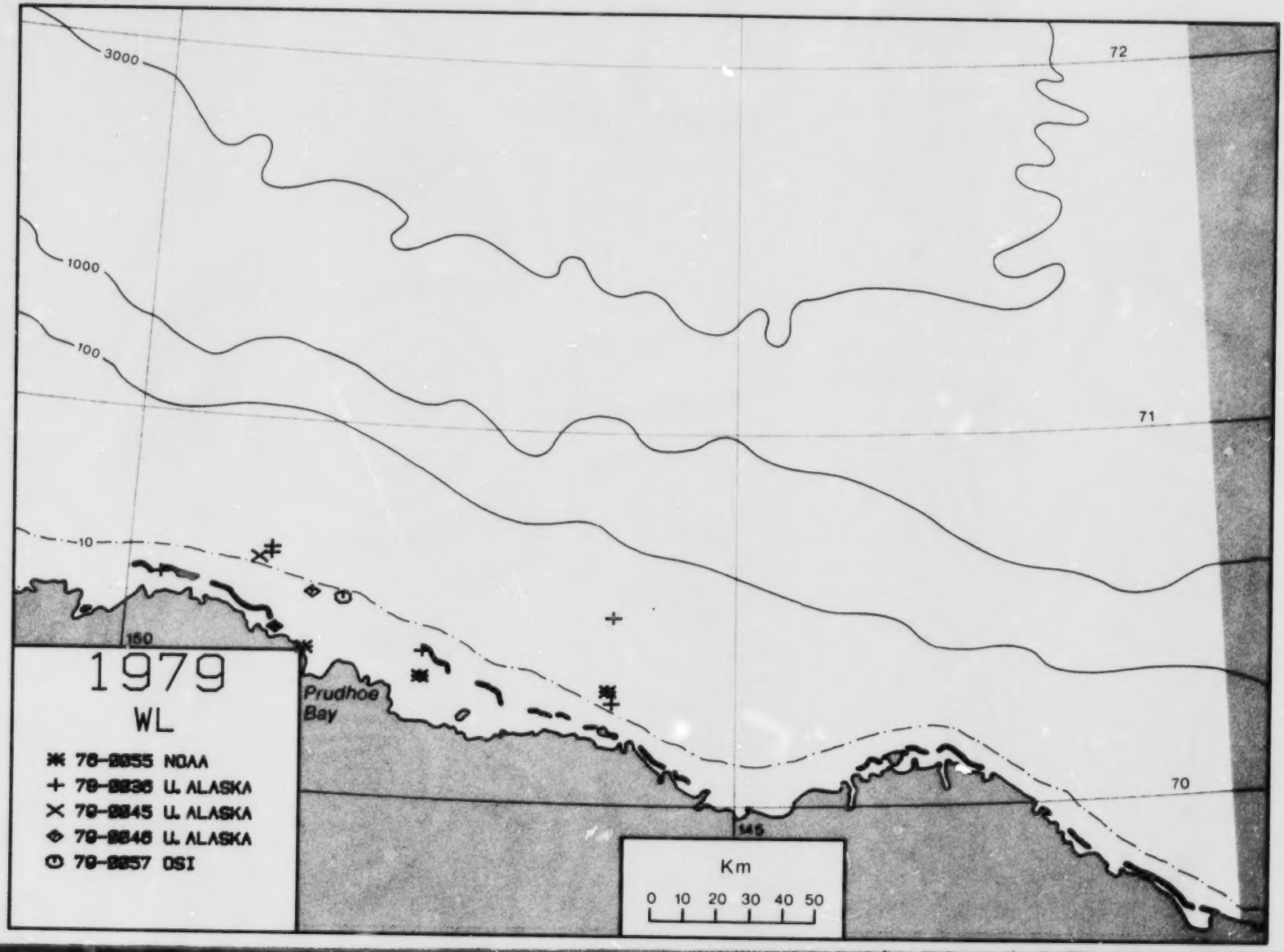

70 30
10
5
5
2
70 20
Km
0 1 2 3 4 5
Pt.
McIntyre
149
148 30
148
1978
CM
78-0033 U. ALASKA
78-0036 U. ALASKA
WL
78-0055 NOAA
78-0033 U. ALASKA
78-0036 U. ALASKA

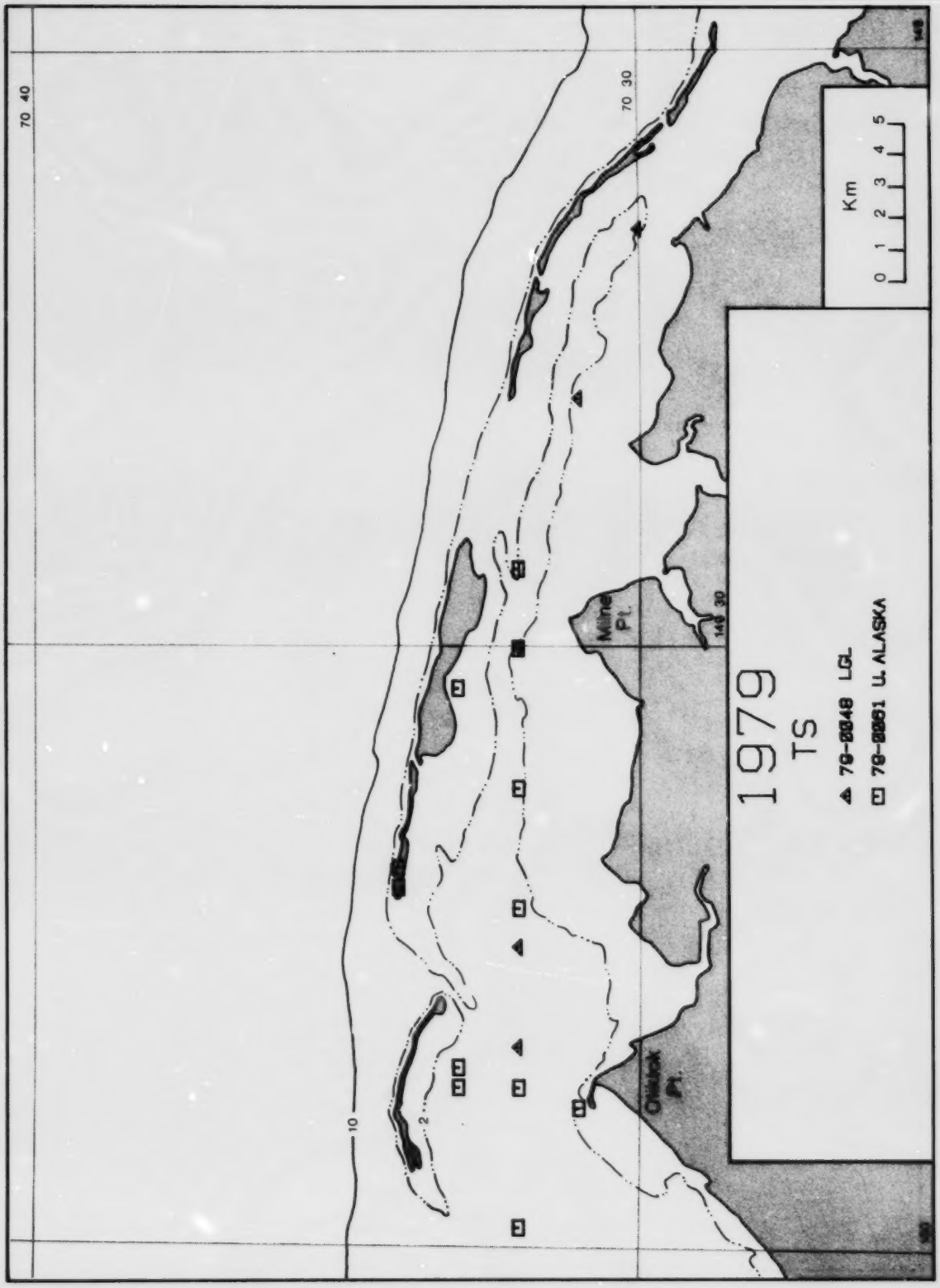

1979
TS
78-0059 U. ALASKA
79-0042 SOH10
79-0048 LGL
79-0050 LOREX ICE STN.
79-0041 WOOD-CLYDE
79-0043 WOOD-CLYDE
79-0001 U. ALASKA
73 0034
NP-22
SEPT 1973
1979
3000
1000
100
85
80
75
90
120
150
180
0
30
60
Km
0
100

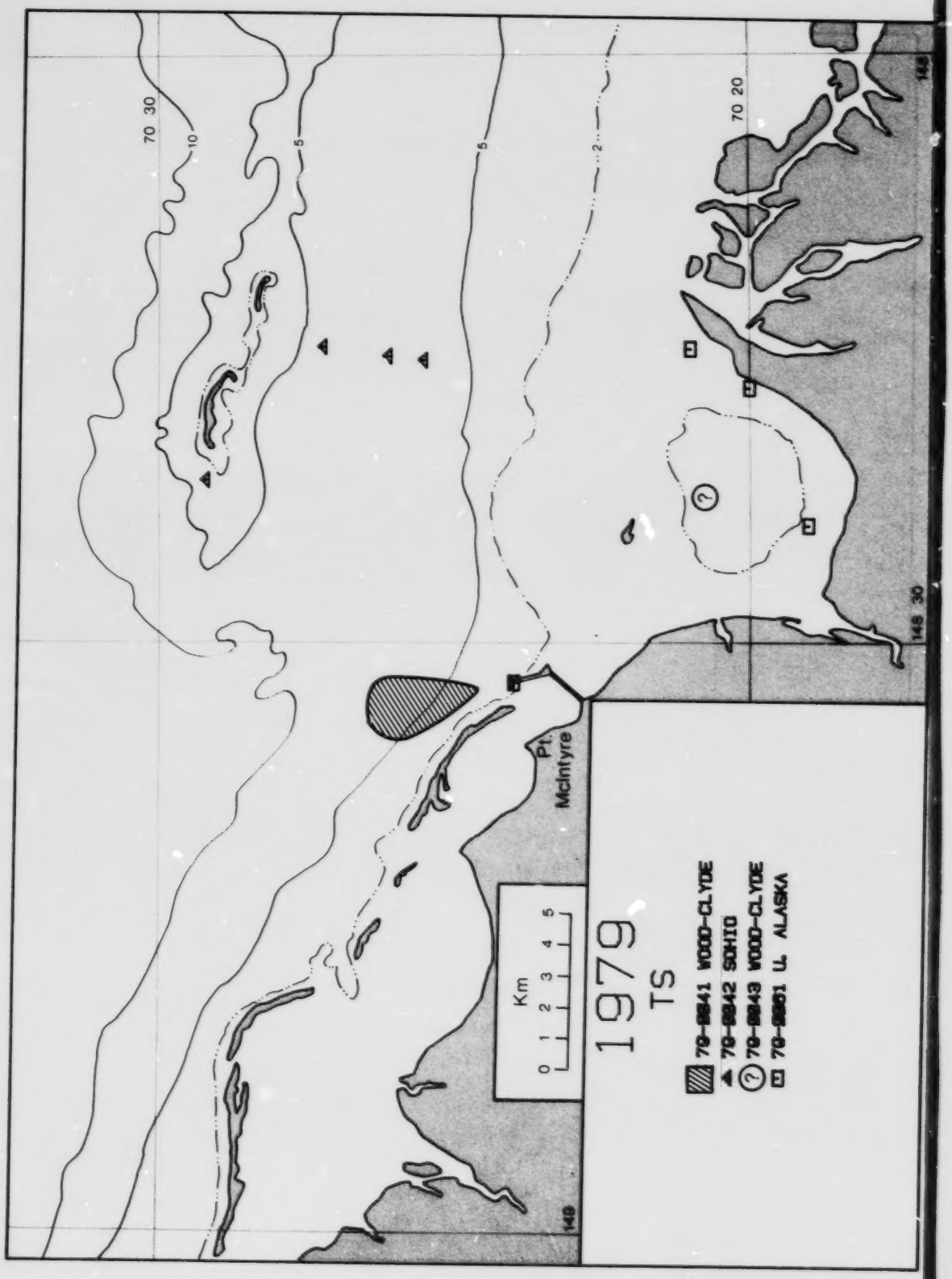

1979
WL
78-0055 NOAA
79-0036 U. ALASKA
79-0045 U. ALASKA
79-0046 U. ALASKA
79-0057 OSI
DRF
79-0002 USCG, CANMAR
79-0044 USGS
79-0047 KINNETIC LAB
79-0049 USCG
CM
79-0036 U. ALASKA
79-0040 U. WASH
79-0042 SOHIO
79-0045 U. ALASKA
79-0046 U. ALASKA
79-0050 LOREX
79-0057 OSI
79-0041 WOOD-CLYDE
79-0043 WOOD-CLYDE
79-0058 EXXON
Km
0 100
3000
1000
85
30
60
120
150
180

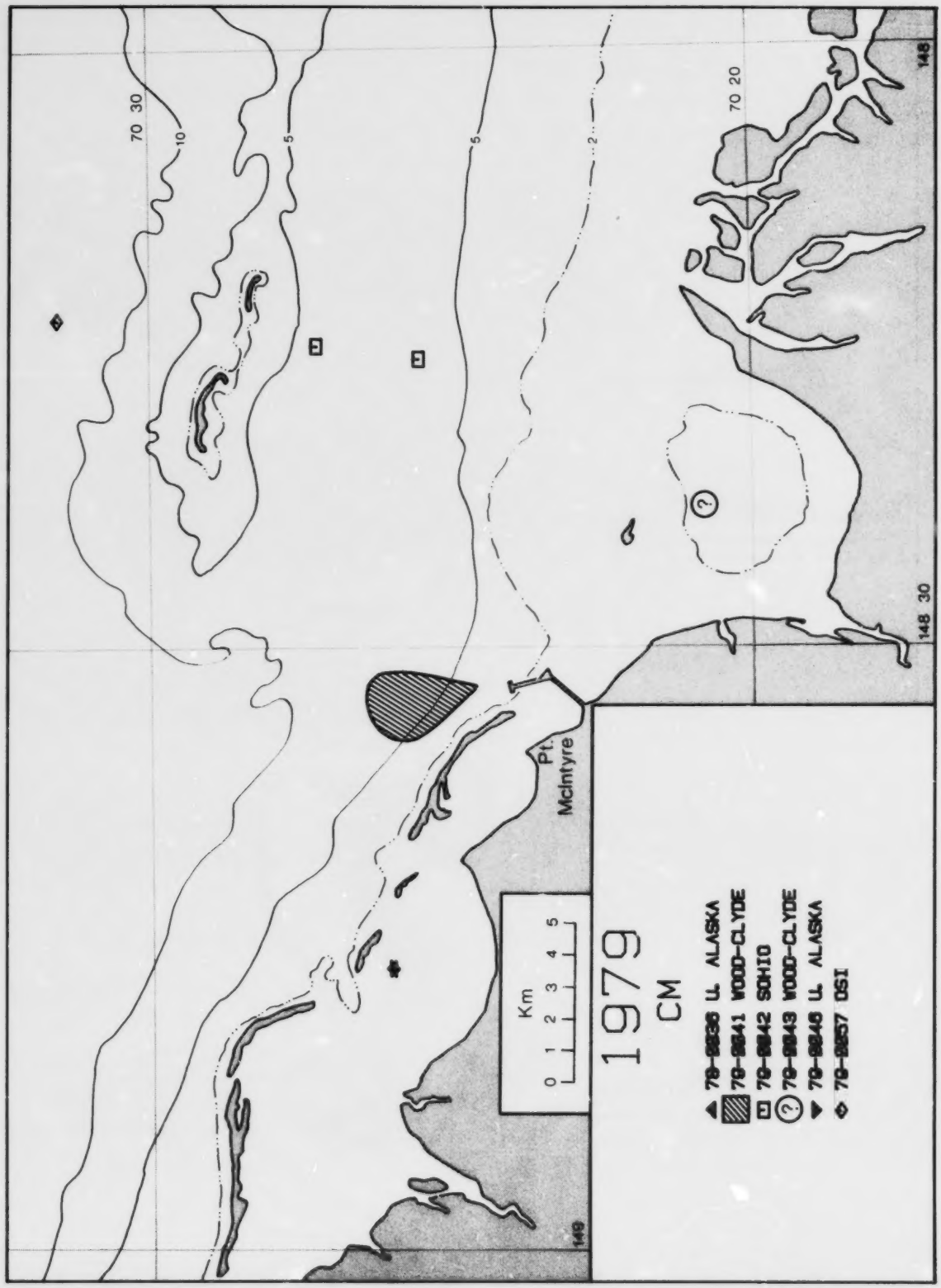

3000
1000
100
10
72
71
70
150
145
Prudhoe Bay
1979
TS
79-0359 U. ALASKA
79-0842 SOHIO
79-0848 LGL
79-0861 U. ALASKA
79-0841 WOOD-CLYDE
79-0843 WOOD-CLYDE
Km
0 10 20 30 40 50

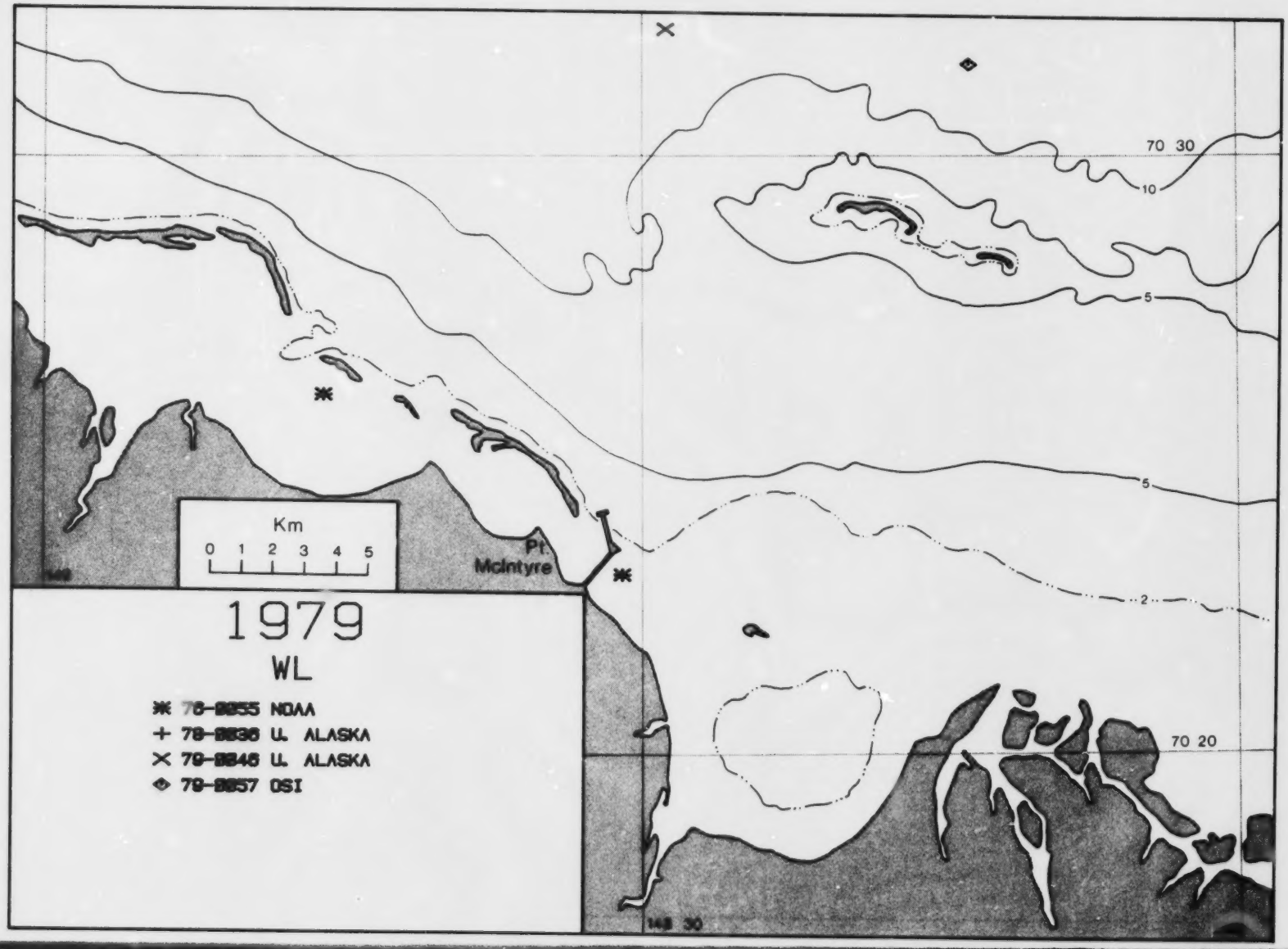

3000
1000
100
10
72
71
70
160
145
Prudhoe Bay
1979
CM
79-0036 U. ALASKA
79-0040 U. WASH
79-0042 SOHIO
79-0045 U. ALASKA
79-0046 U. ALASKA
79-0057 OSI
79-0041 WOOD-CLYDE
79-0043 WOOD-CLYDE
Km
0 10 20 30 40 50


3000
1000
100
10
72
71
70
150
149
Prudhoe Bay
1979
WL
79-0055 NOAA
79-0036 U. ALASKA
79-0045 U. ALASKA
79-0046 U. ALASKA
79-0057 OSI
Km
0 10 20 30 40 50

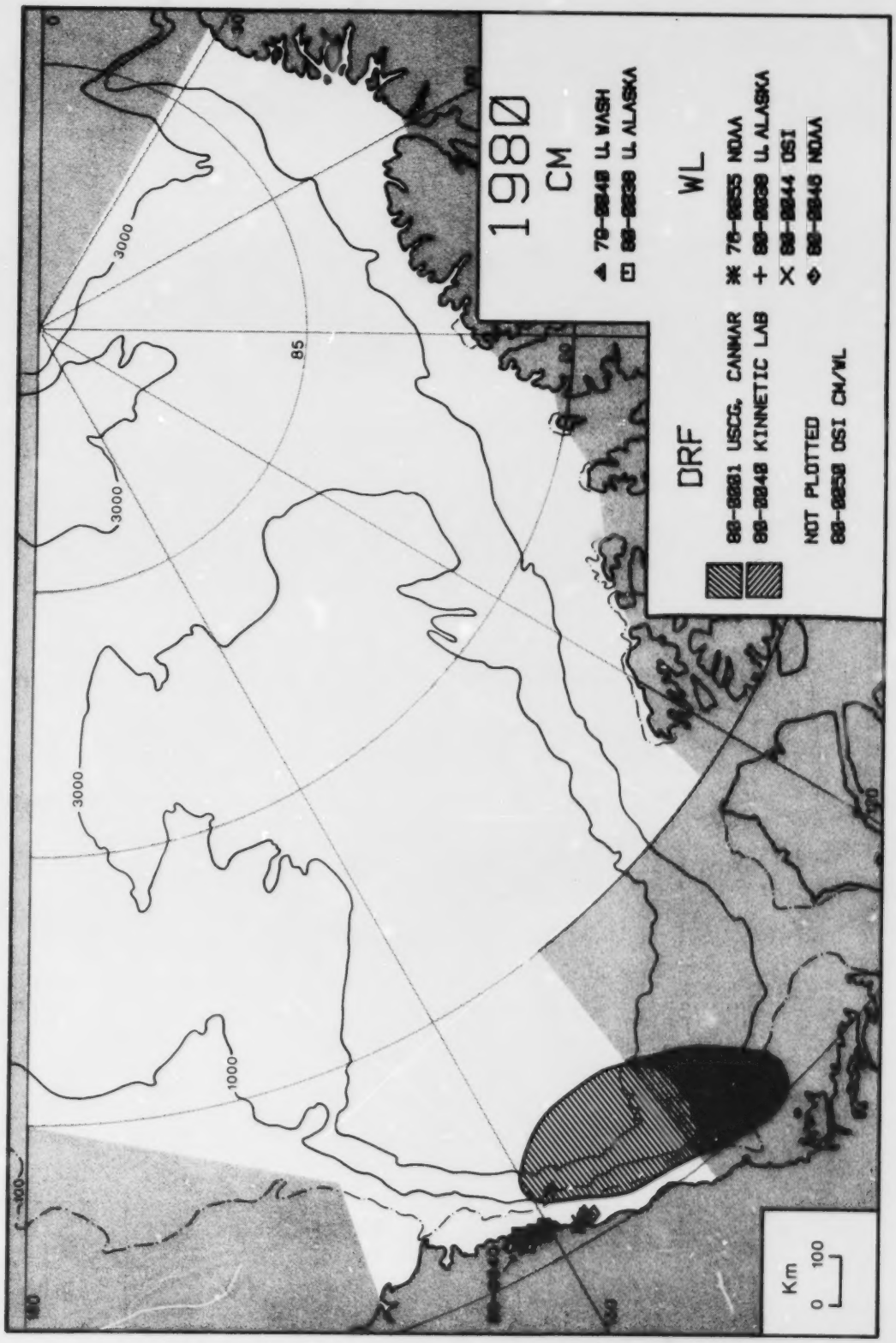

1979
TS
79-0048 LGL
79-0061 U. ALASKA
Km
0 1 2 3 4 5
Milne Pt.
Oliktok Pt.
70 40
70 30
10
2

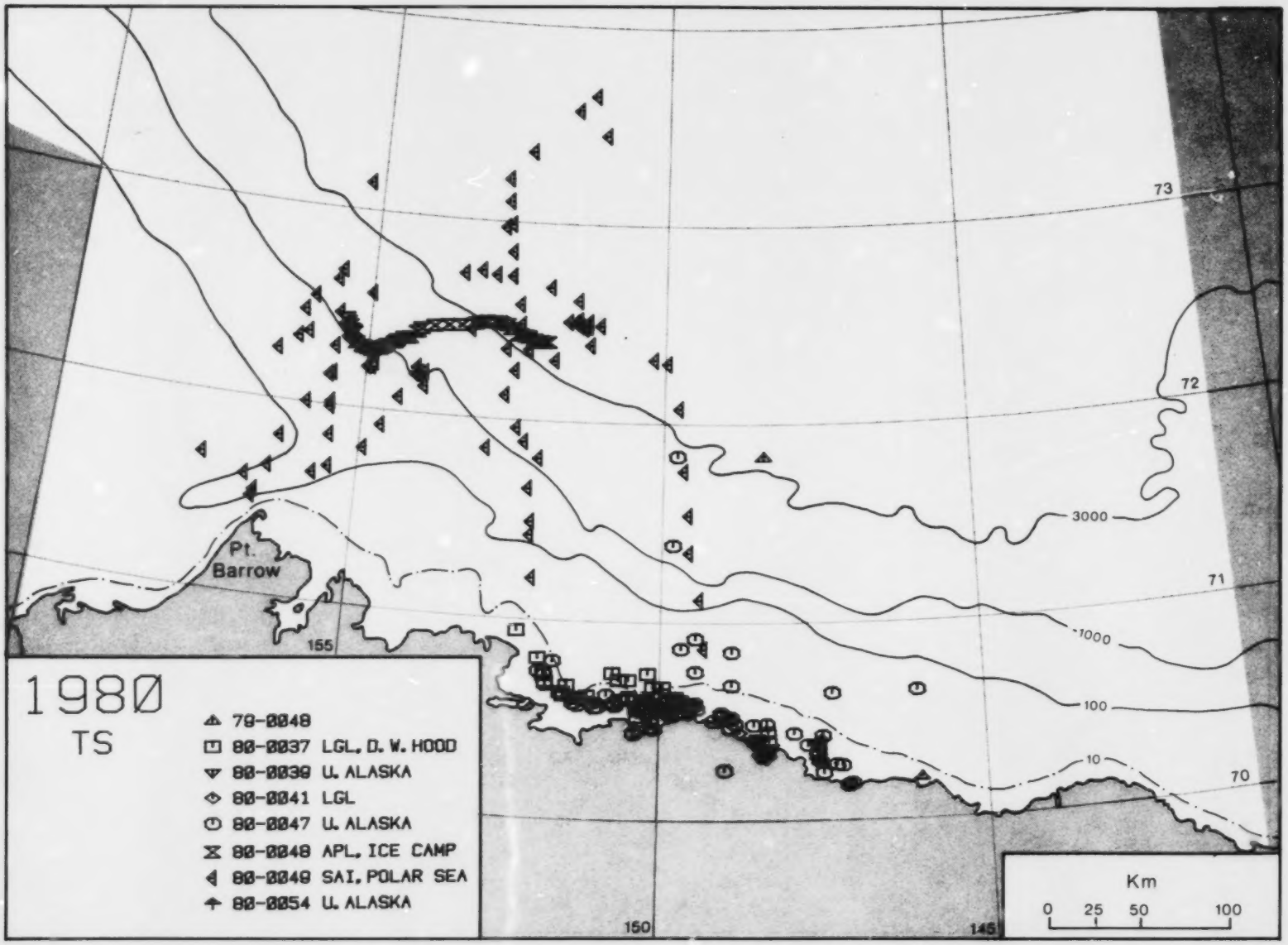

70 30
10
5
5
2
70 20
148
148 30
Pt. McIntyre
Km
0 1 2 3 4 5
1979
TS
79-8841 WOOD-CLYDE
79-8842 SOHIO
79-8843 WOOD-CLYDE
70-8801 U. ALASKA

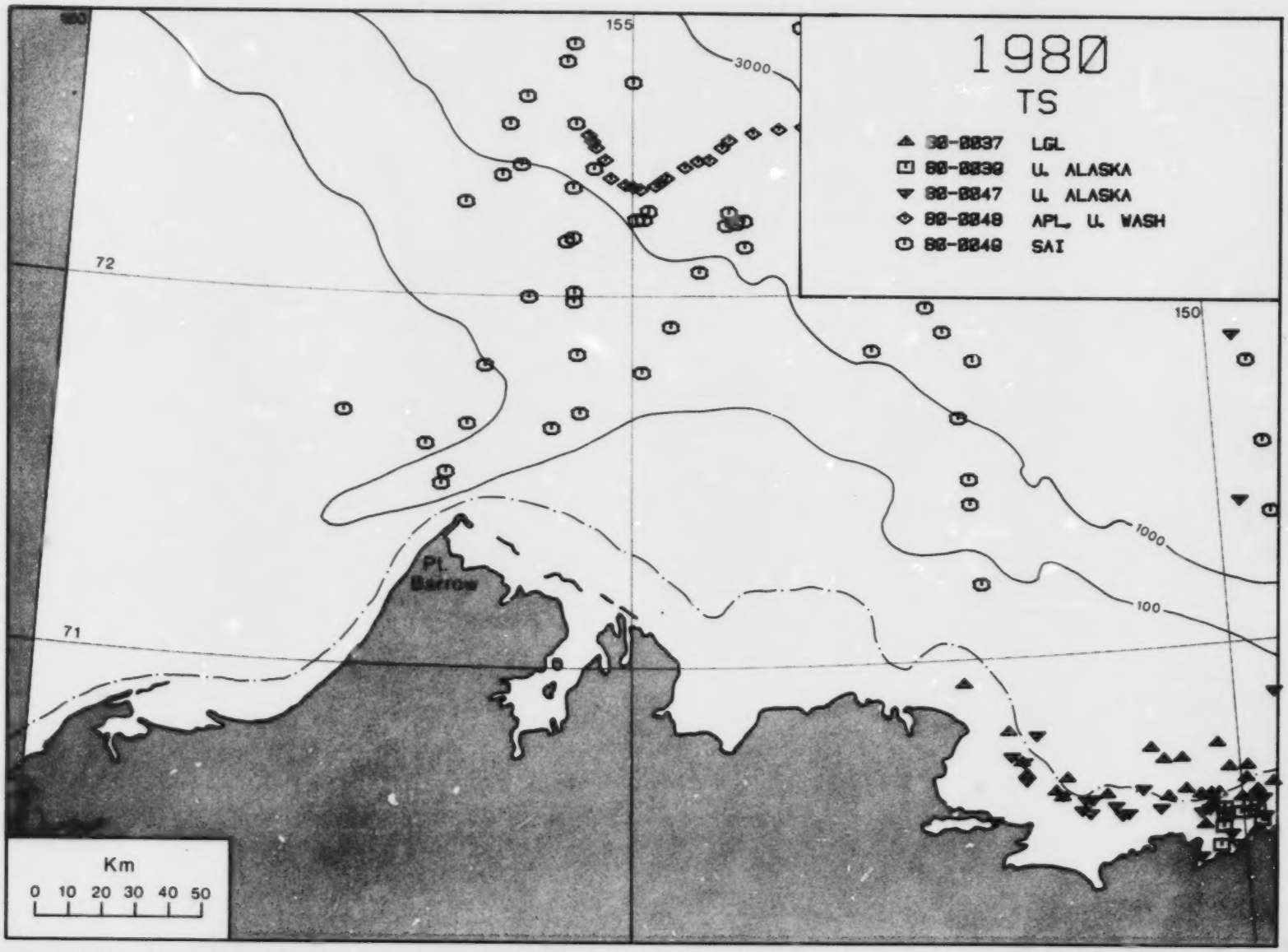

70 30
10
5
5
2
70 20
148
148 30
149
Pt. McIntyre
Km
0 1 2 3 4 5
1979
CM
79-8836 UL ALASKA
79-8841 WOOD-CLYDE
79-8842 SOHIO
79-8843 WOOD-CLYDE
79-8846 UL ALASKA
79-8857 DSI

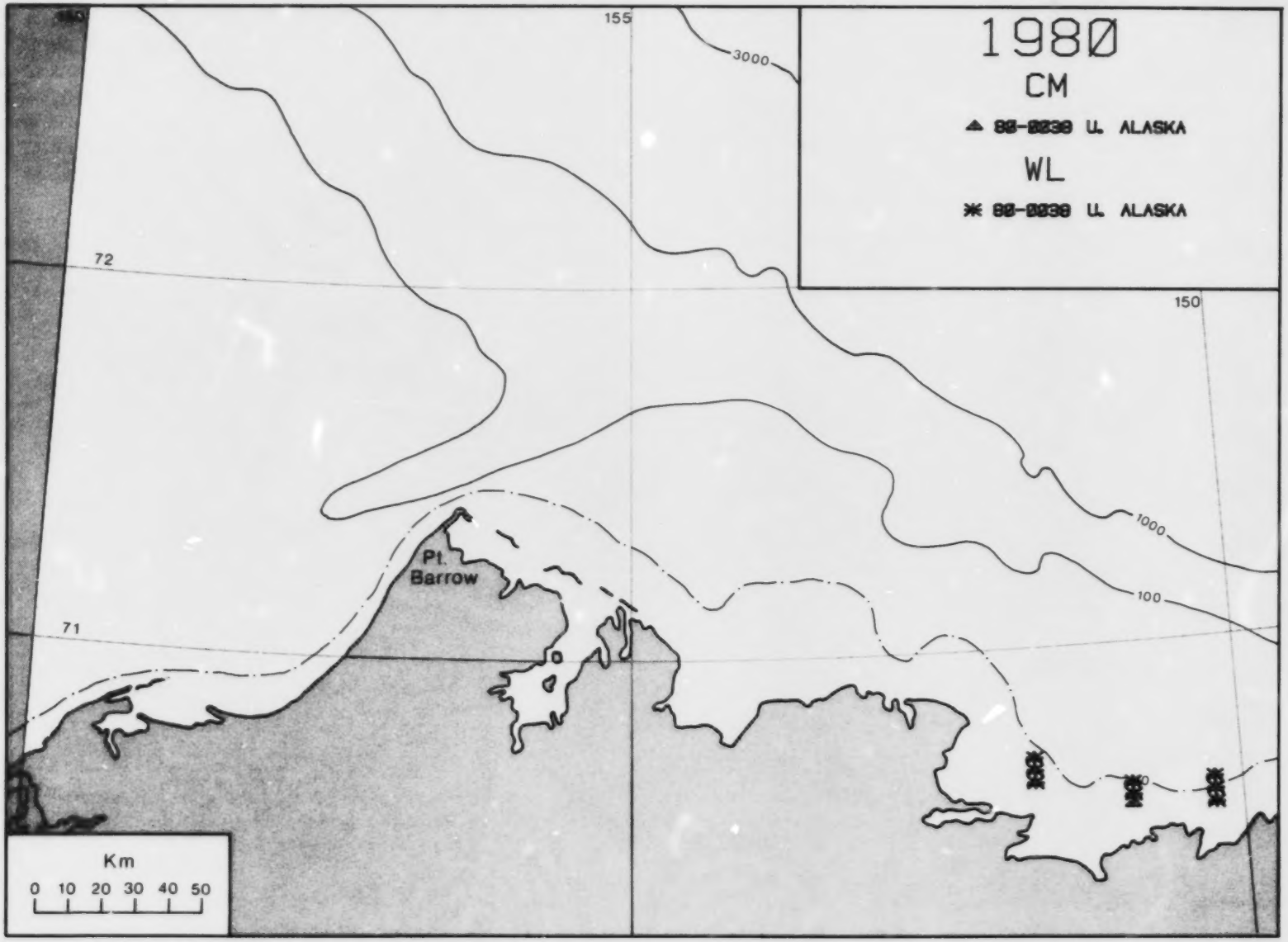

70 30
10
5
5
2
70 20
148 30
Km
0 1 2 3 4 5
Pt. McIntyre
1979
WL
✱ 78-8855 NOAA
+ 78-8836 U. ALASKA
× 79-8846 U. ALASKA
◇ 79-8857 OSI

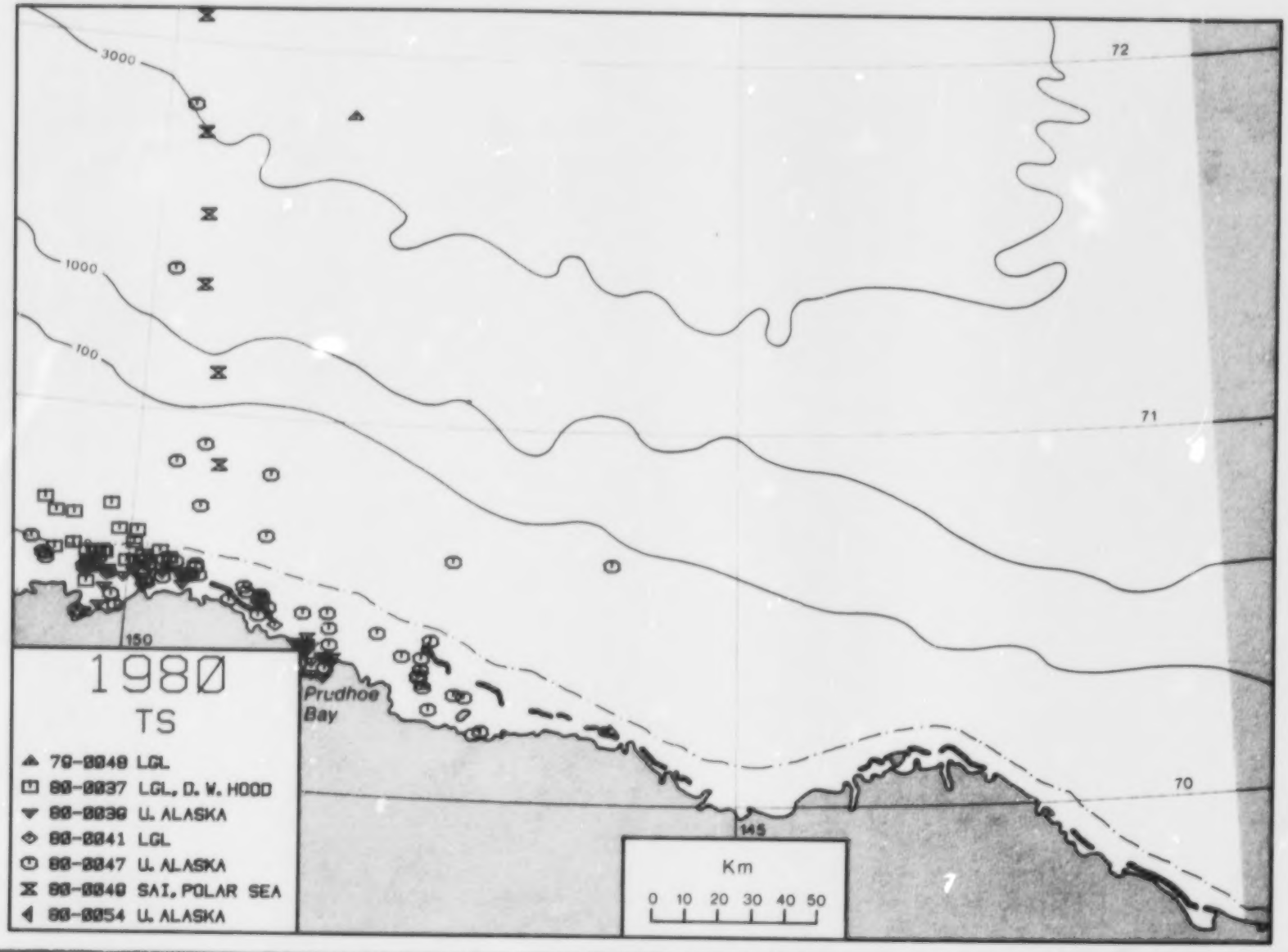
1980
TS
79-0048 LGL
80-0037 LGL, D. W. HOOD
80-0039 U. ALASKA
80-0041 LGL
80-0047 U. ALASKA
80-0048 APL, ICE CAMP
80-0049 SAI, POLAR SEA
80-0054 U. ALASKA
3000
3000
3000
1000
85
80
75
90
120
100
150
Km
0
100

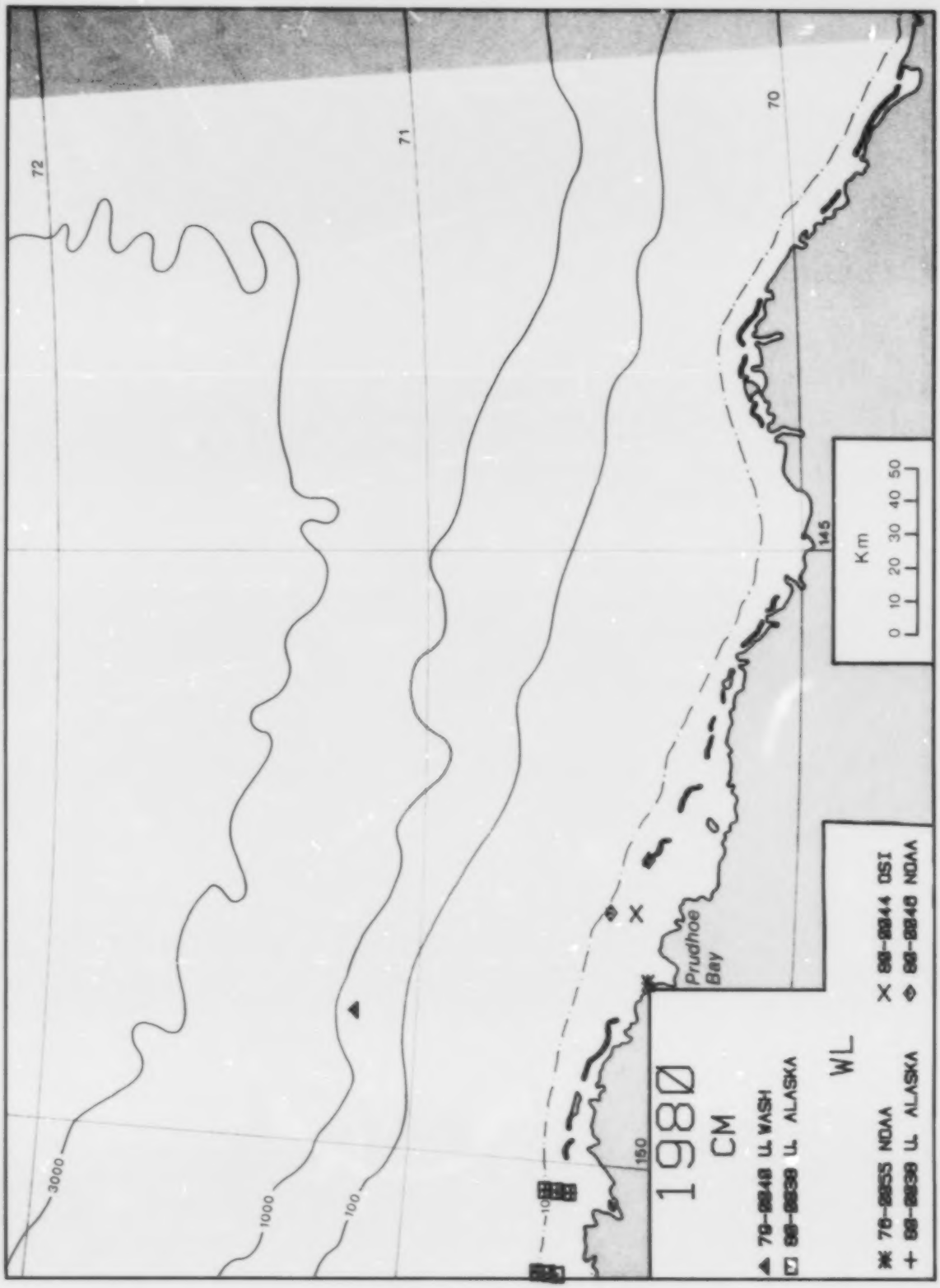

1980
CM
▲ 79-0040 U. WASH
□ 80-0038 U. ALASKA
WL
✱ 76-0055 NOAA
+ 80-0038 U. ALASKA
× 80-0044 OSI
◇ 80-0046 NOAA
DRF
80-0001 USCG, CANMAR
80-0040 KINNETIC LAB
NOT PLOTTED
80-0050 OSI CM/WL
3000
3000
3000
1000
85
Km
0
100

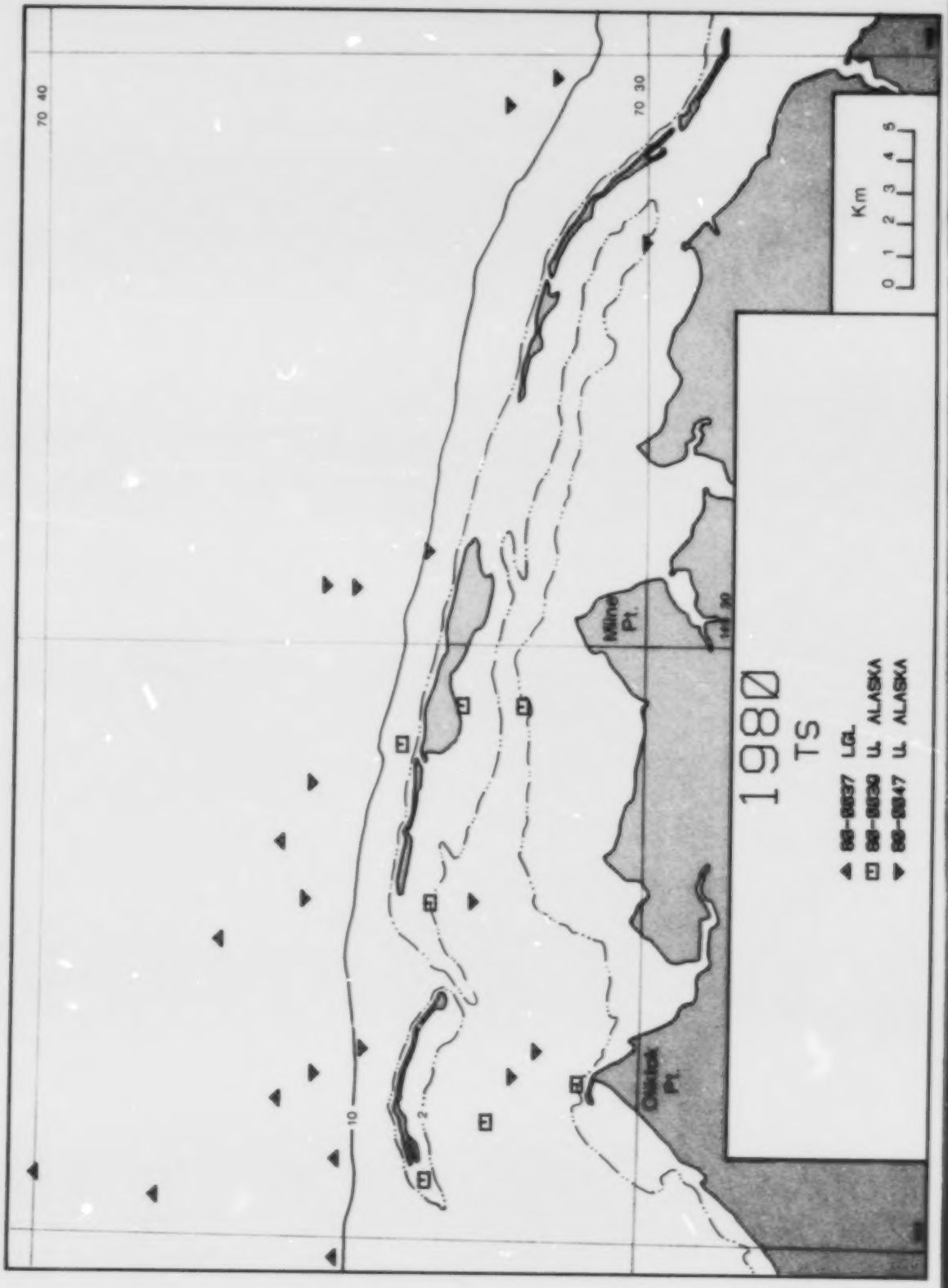

1980
TS
79-0048
80-0037 LGL, D. W. HOOD
80-0039 U. ALASKA
80-0041 LGL
80-0047 U. ALASKA
80-0048 APL, ICE CAMP
80-0049 SAI, POLAR SEA
80-0054 U. ALASKA
Pt. Barrow
73
72
71
70
3000
1000
100
10
155
150
145
Km
0 25 50 100

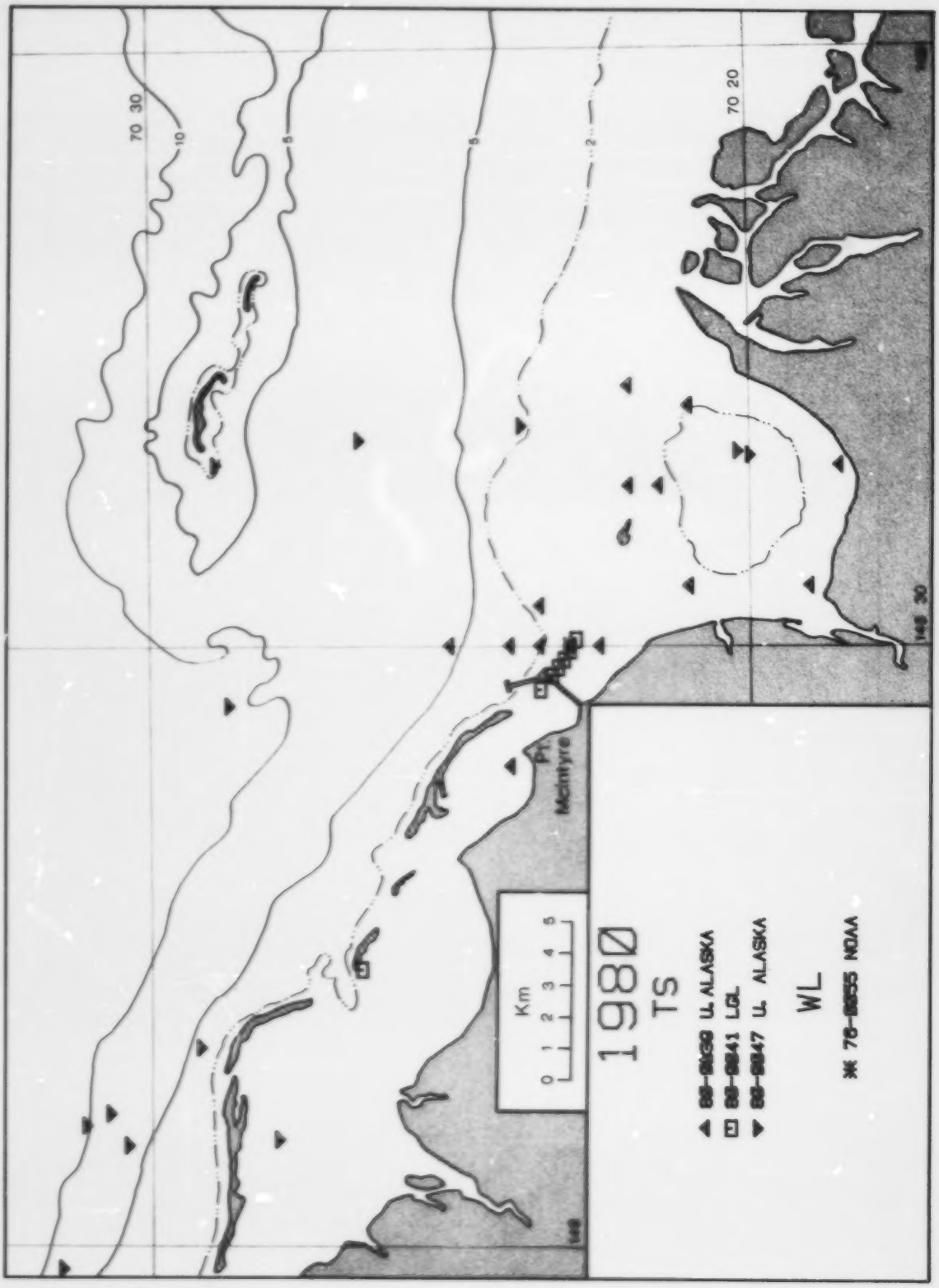

1980
TS
80-0037 LGL
80-0039 U. ALASKA
80-0047 U. ALASKA
80-0048 APL, U. WASH
80-0049 SAI
155
150
72
71
3000
1000
100
Pt. Barrow
Km
0 10 20 30 40 50

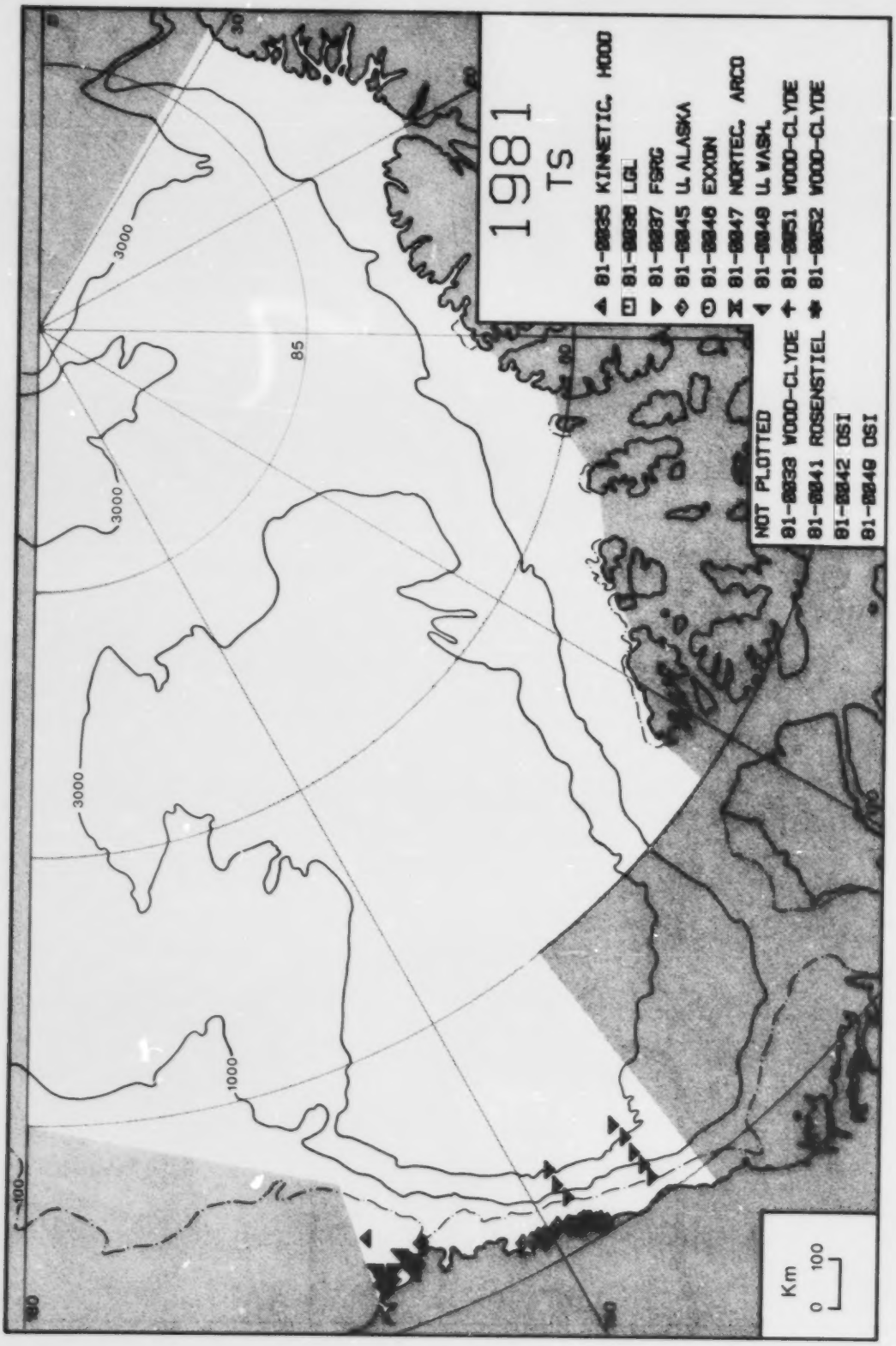

1980
CM
▲ 80-0230 U. ALASKA
WL
✳ 80-0230 U. ALASKA
155
3000
72
150
1000
100
71
Pt.
Barrow
Km
0 10 20 30 40 50

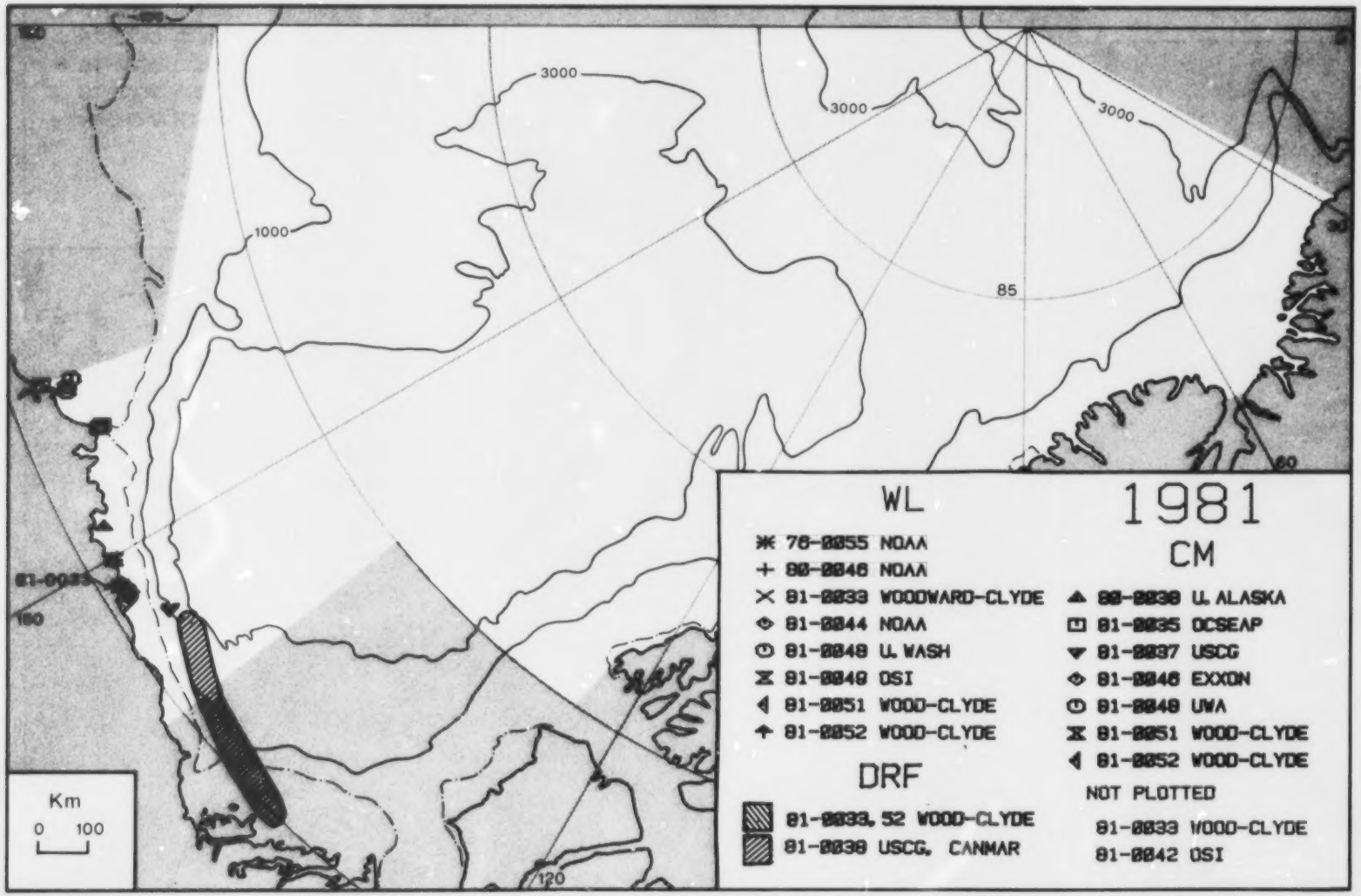

3000
1000
100
72
71
70
150
145
Prudhoe Bay
1980
TS
79-0049 LGL
80-0037 LGL, D. W. HOOD
80-0039 U. ALASKA
80-0041 LGL
80-0047 U. ALASKA
80-0049 SAI, POLAR SEA
80-0054 U. ALASKA
Km
0 10 20 30 40 50

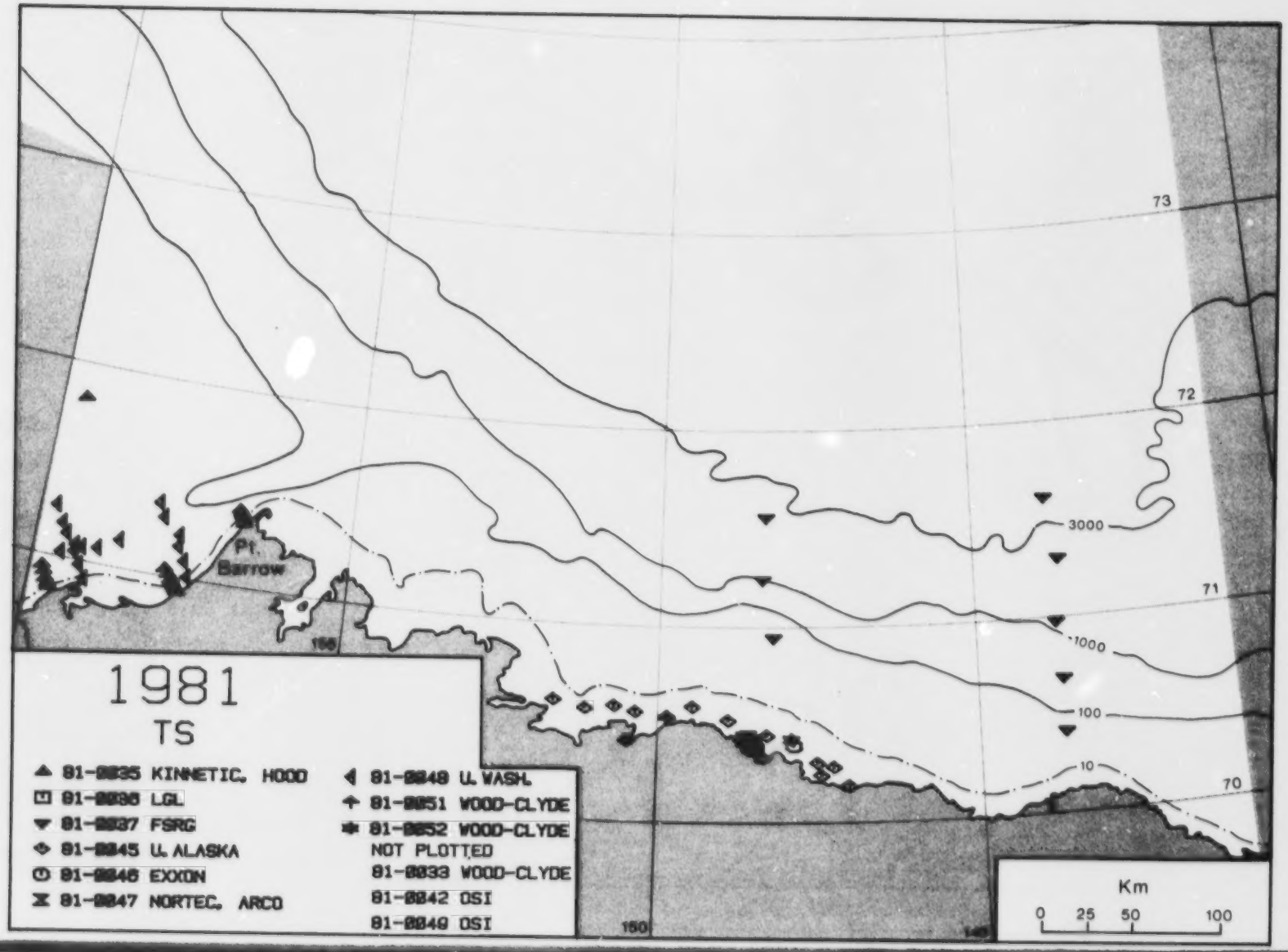

1980
CM
WL
Prudhoe Bay
Km
0 10 20 30 40 50
72
71
70
145
150
3000
1000
100
10

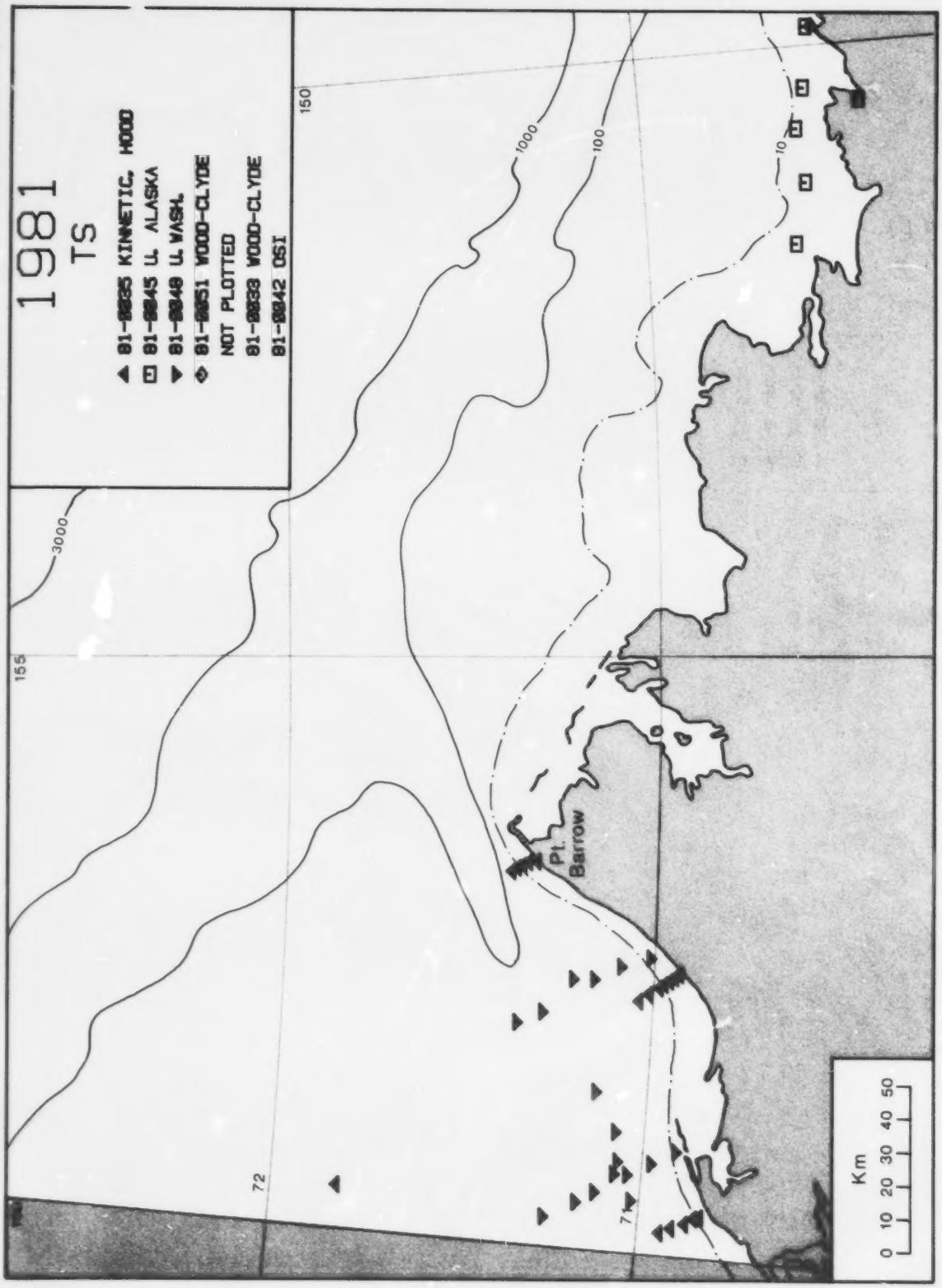

70 40
70 30
10
2
Milne Pt.
Oliktok Pt.
Km
0 1 2 3 4 5
1980
TS
LGL
U. ALASKA
U. ALASKA

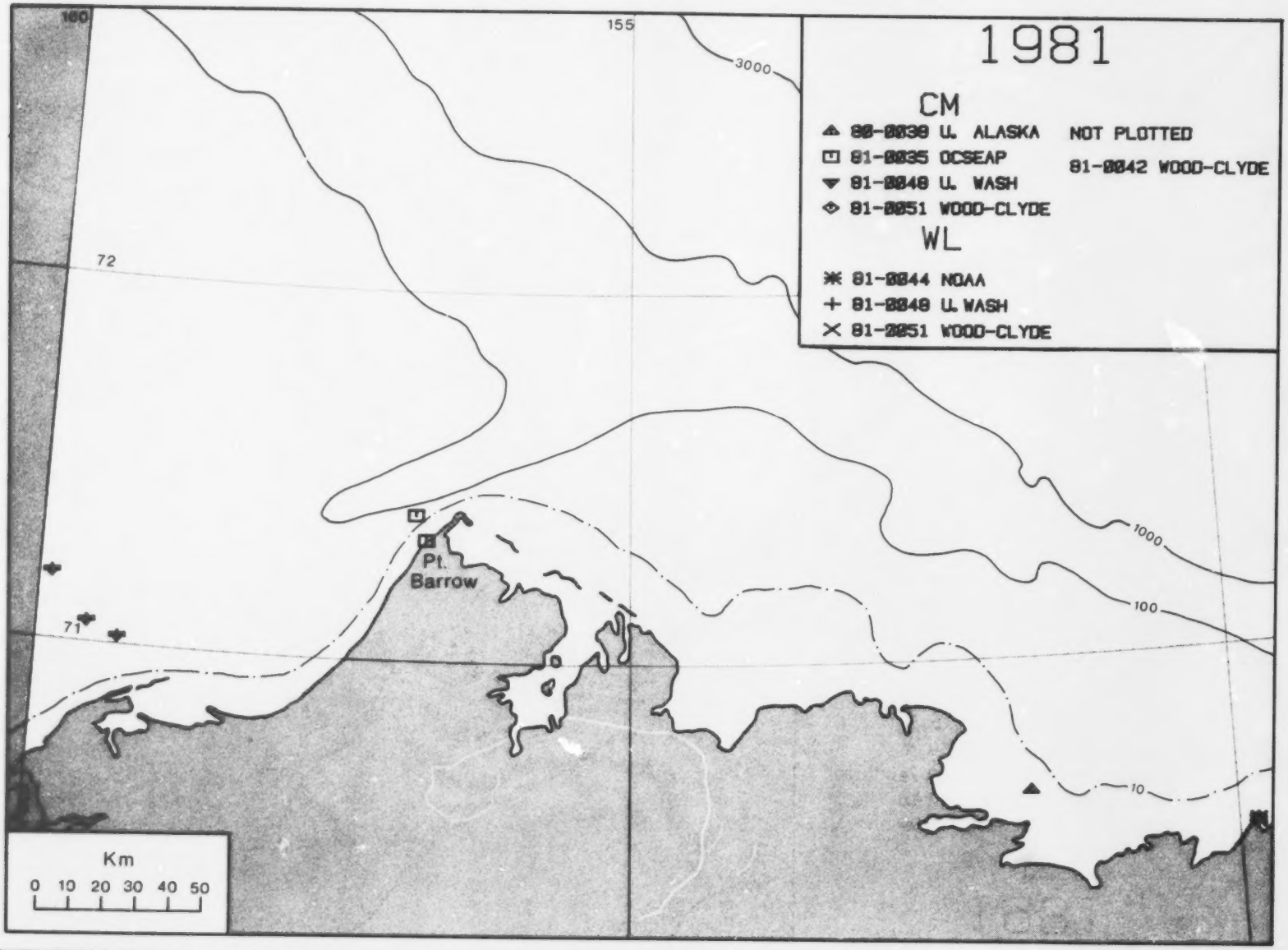

70 30
10
5
5
2
70 20
Pt. McIntyre
Km
0 1 2 3 4 5
1980
TS
U. ALASKA
LGL
U. ALASKA
WL
NOAA

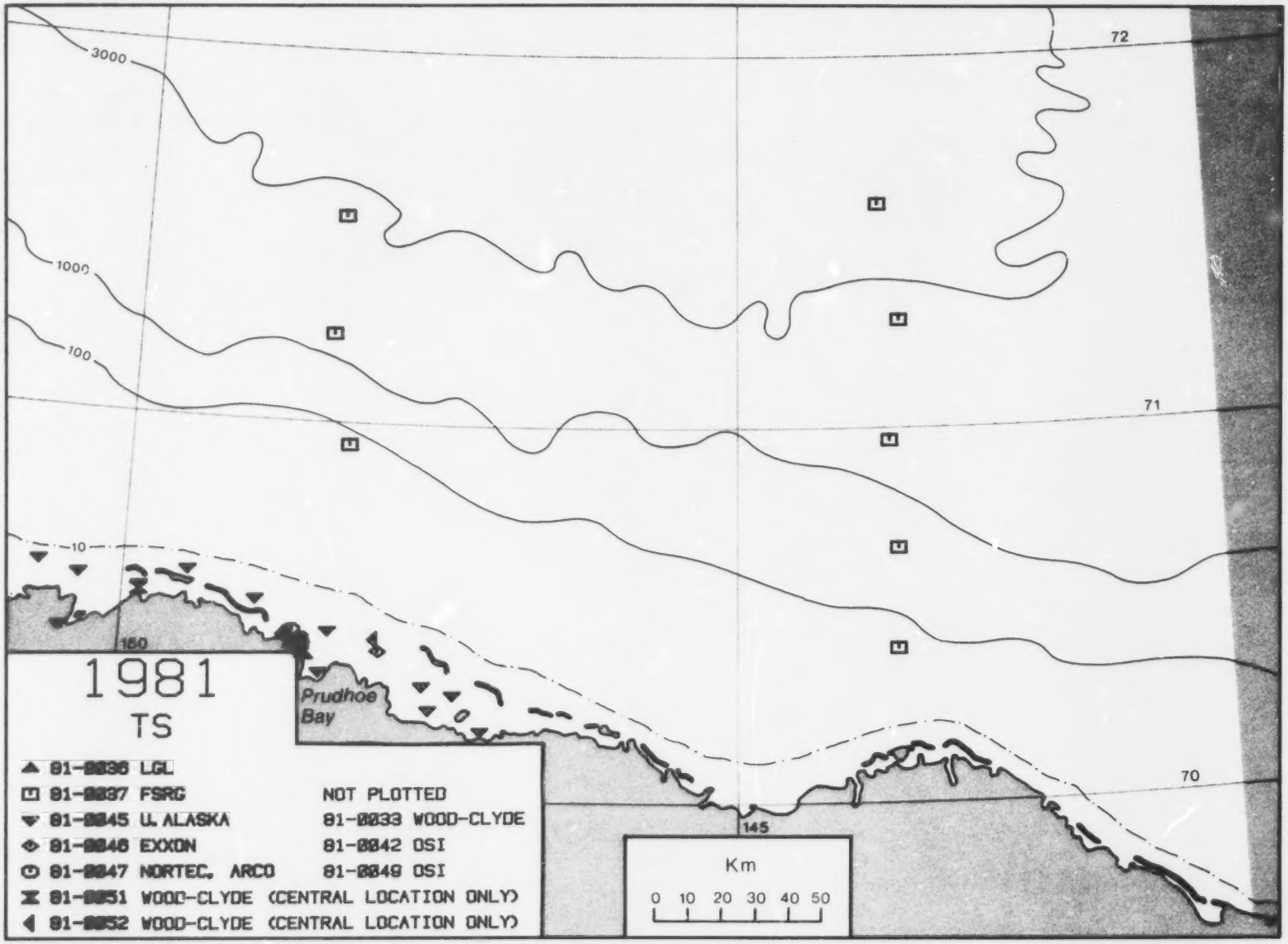

1981
TS
81-0035 KINNETIC, HOOD
81-0036 LGL
81-0037 FSRG
81-0045 U. ALASKA
81-0046 EXXON
81-0047 NORTEC, ARCO
81-0048 U. WASH.
81-0051 WOOD-CLYDE
81-0052 WOOD-CLYDE
NOT PLOTTED
81-0033 WOOD-CLYDE
81-0041 ROSENSTIEL
81-0042 OSI
81-0049 OSI
3000
3000
3000
1000
85
Km
0
100

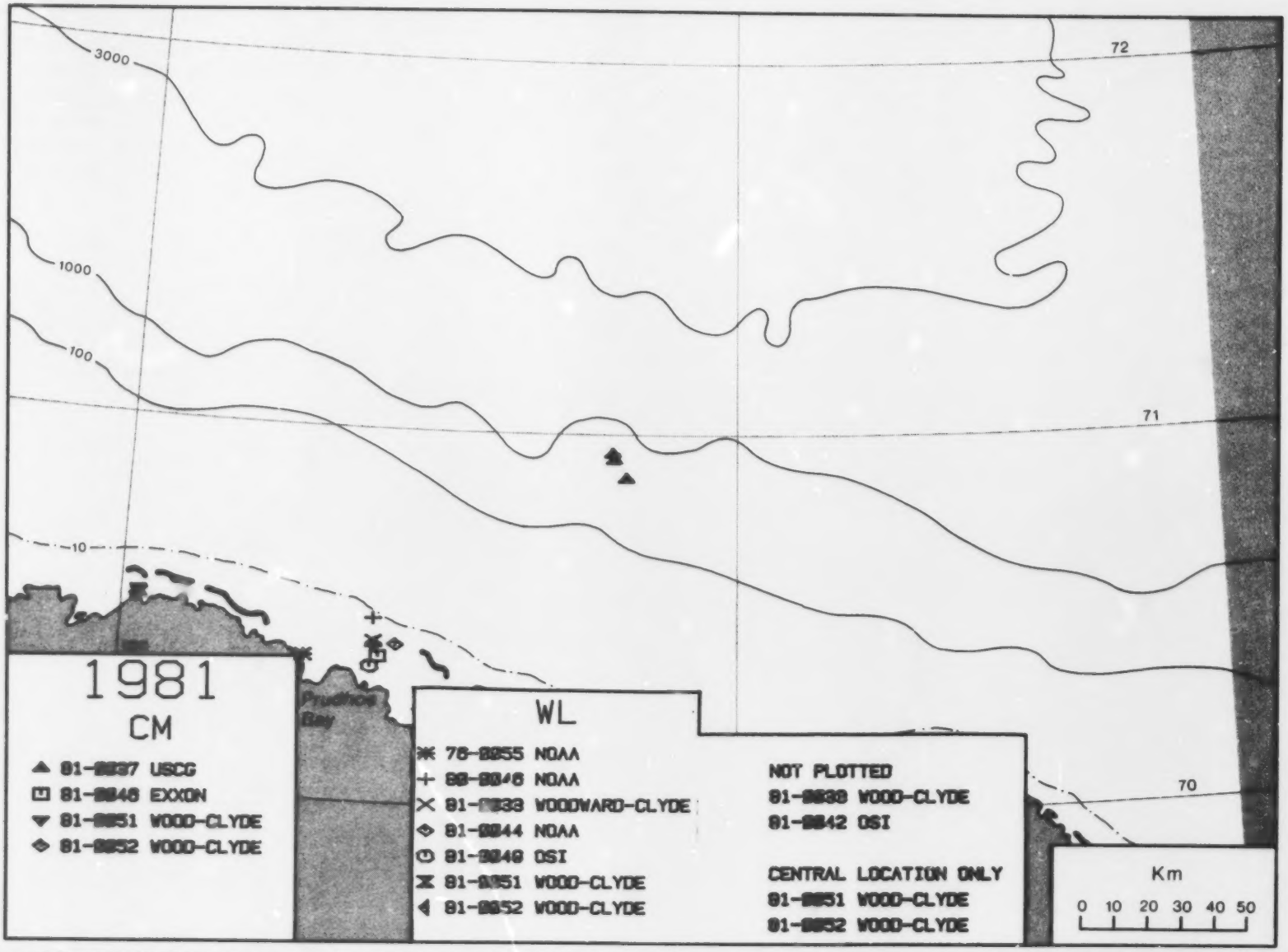

3000
3000
3000
1000
85
60
81-0033
160
120
Km
0 100
WL
1981
CM
78-0055 NOAA
80-0046 NOAA
81-0033 WOODWARD-CLYDE
81-0044 NOAA
81-0048 U. WASH
81-0049 OSI
81-0051 WOOD-CLYDE
81-0052 WOOD-CLYDE
80-0038 U. ALASKA
81-0035 OCSEAP
81-0037 USCG
81-0046 EXXON
81-0048 UWA
81-0051 WOOD-CLYDE
81-0052 WOOD-CLYDE
DRF
81-0033, 52 WOOD-CLYDE
81-0038 USCG, CANMAR
NOT PLOTTED
81-0033 WOOD-CLYDE
81-0042 OSI

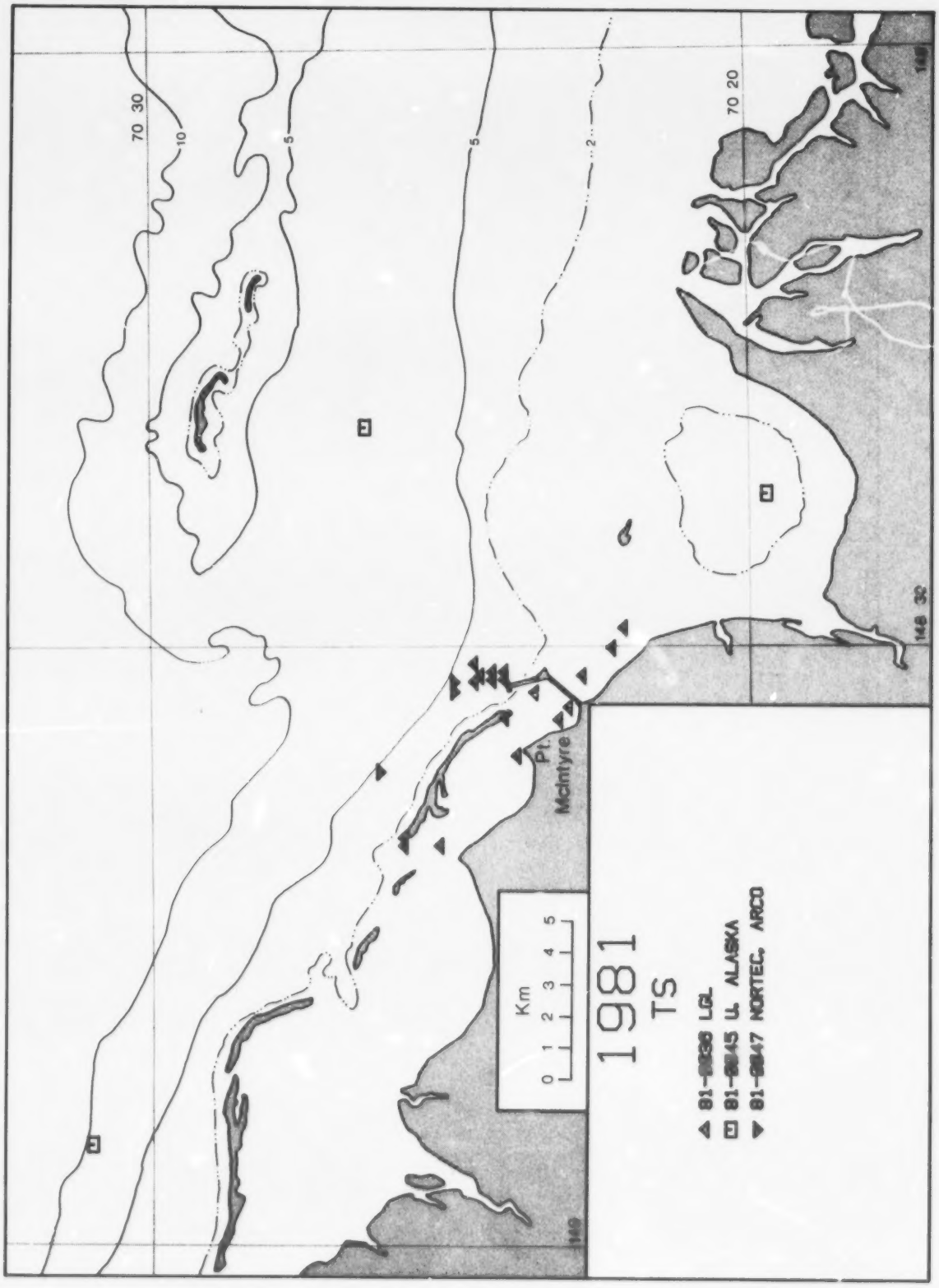

1981
TS
81-0035 KINNETIC, HOOD
81-0036 LGL
81-0037 FSRG
81-0045 U. ALASKA
81-0046 EXXON
81-0047 NORTEC, ARCO
81-0048 U. WASH.
81-0051 WOOD-CLYDE
81-0052 WOOD-CLYDE
NOT PLOTTED
81-0033 WOOD-CLYDE
81-0042 OSI
81-0049 OSI
Pt. Barrow
73
72
71
70
3000
1000
100
10
156
150
Km
0 25 50 100

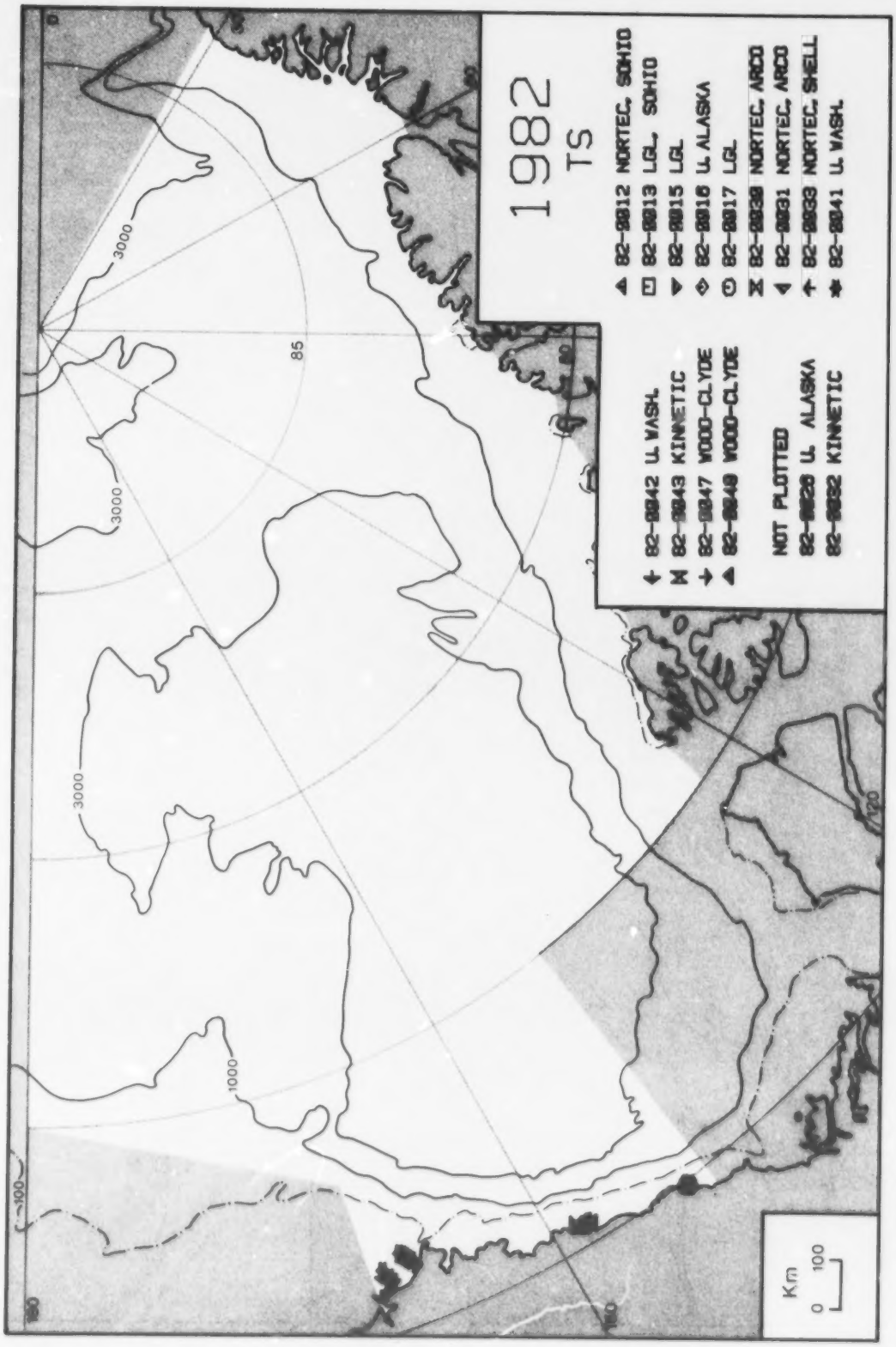

1981
TS
81-0035 KINNETIC, HOOD
81-0045 U. ALASKA
81-0048 U. WASH.
81-0051 WOOD-CLYDE
NOT PLOTTED
81-0033 WOOD-CLYDE
81-0042 OSI
3000
1000
100
10
150
155
72
71
Pt. Barrow
Km
0 10 20 30 40 50

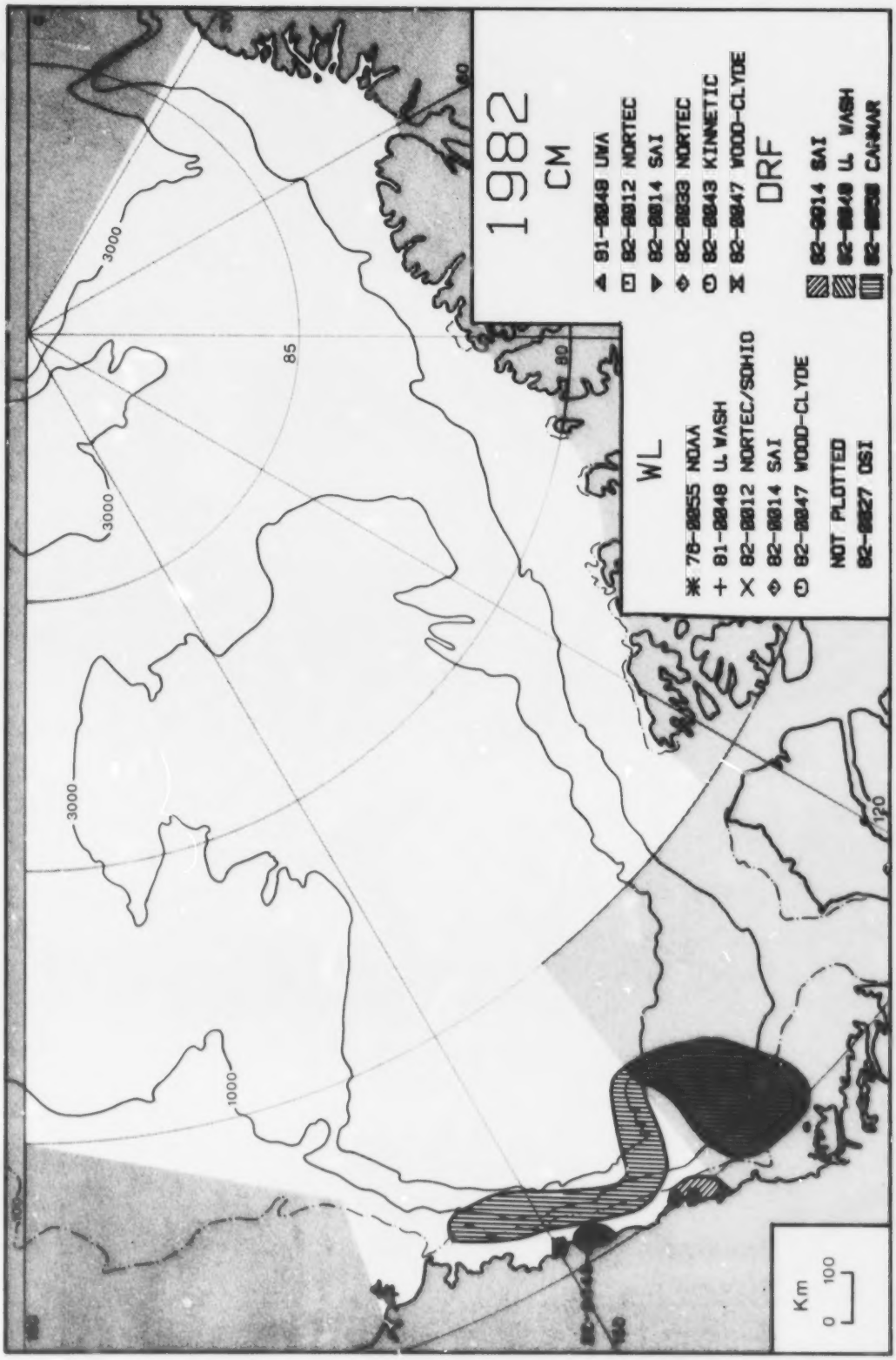

1981
CM
80-0030 U. ALASKA
81-0035 OCSEAP
81-0040 U. WASH
81-0051 WOOD-CLYDE
NOT PLOTTED
81-0042 WOOD-CLYDE
WL
81-0044 NOAA
81-0049 U. WASH
81-0051 WOOD-CLYDE
160
155
72
71
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

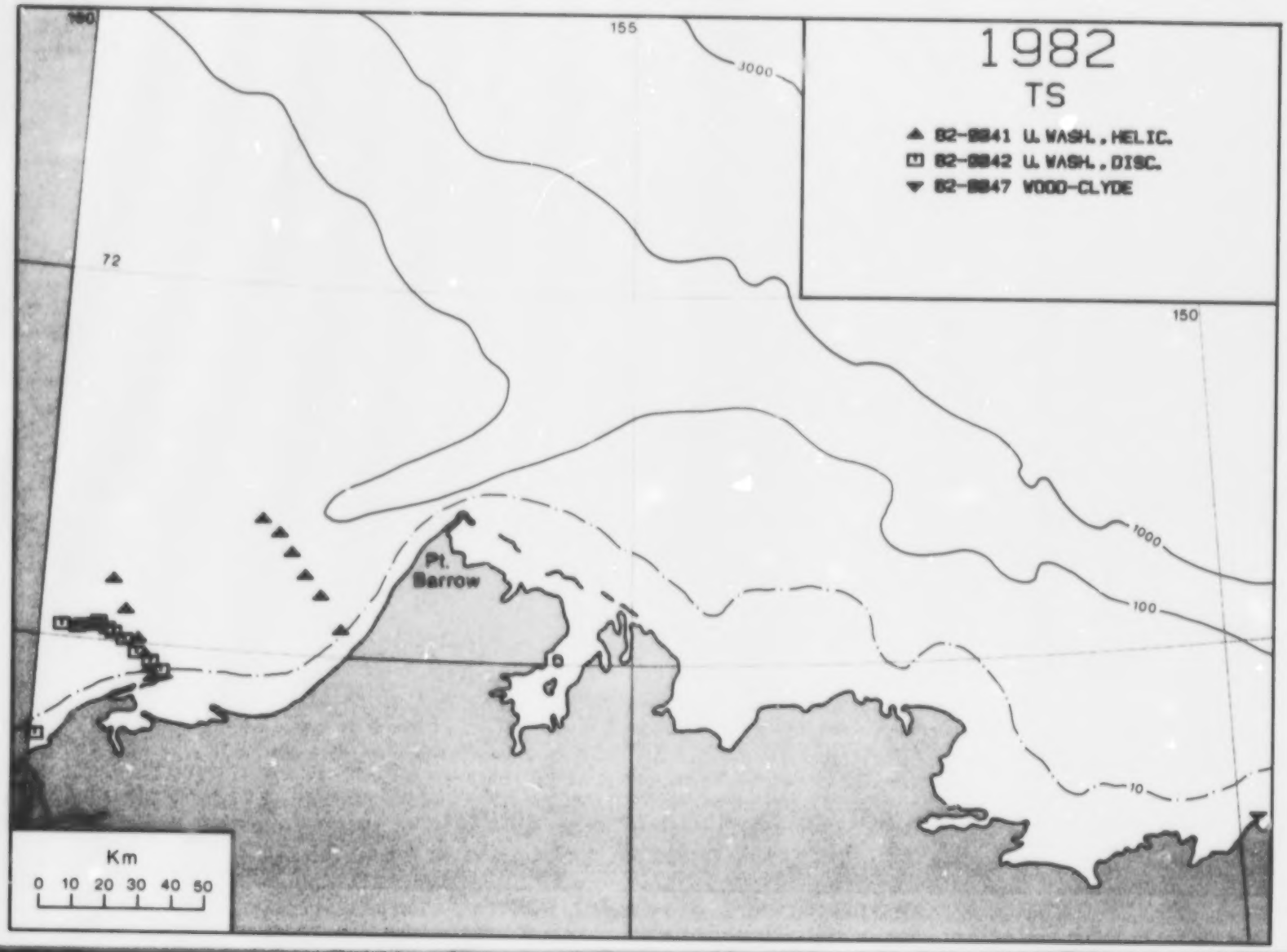

3000
1000
100
10
72
71
70
150
145
Prudhoe Bay
1981
TS
81-0036 LGL
81-0037 FSRG
81-0045 U. ALASKA
81-0046 EXXON
81-0047 NORTEC, ARCO
81-0051 WOOD-CLYDE (CENTRAL LOCATION ONLY)
81-0052 WOOD-CLYDE (CENTRAL LOCATION ONLY)
NOT PLOTTED
81-0033 WOOD-CLYDE
81-0042 OSI
81-0049 OSI
Km
0 10 20 30 40 50

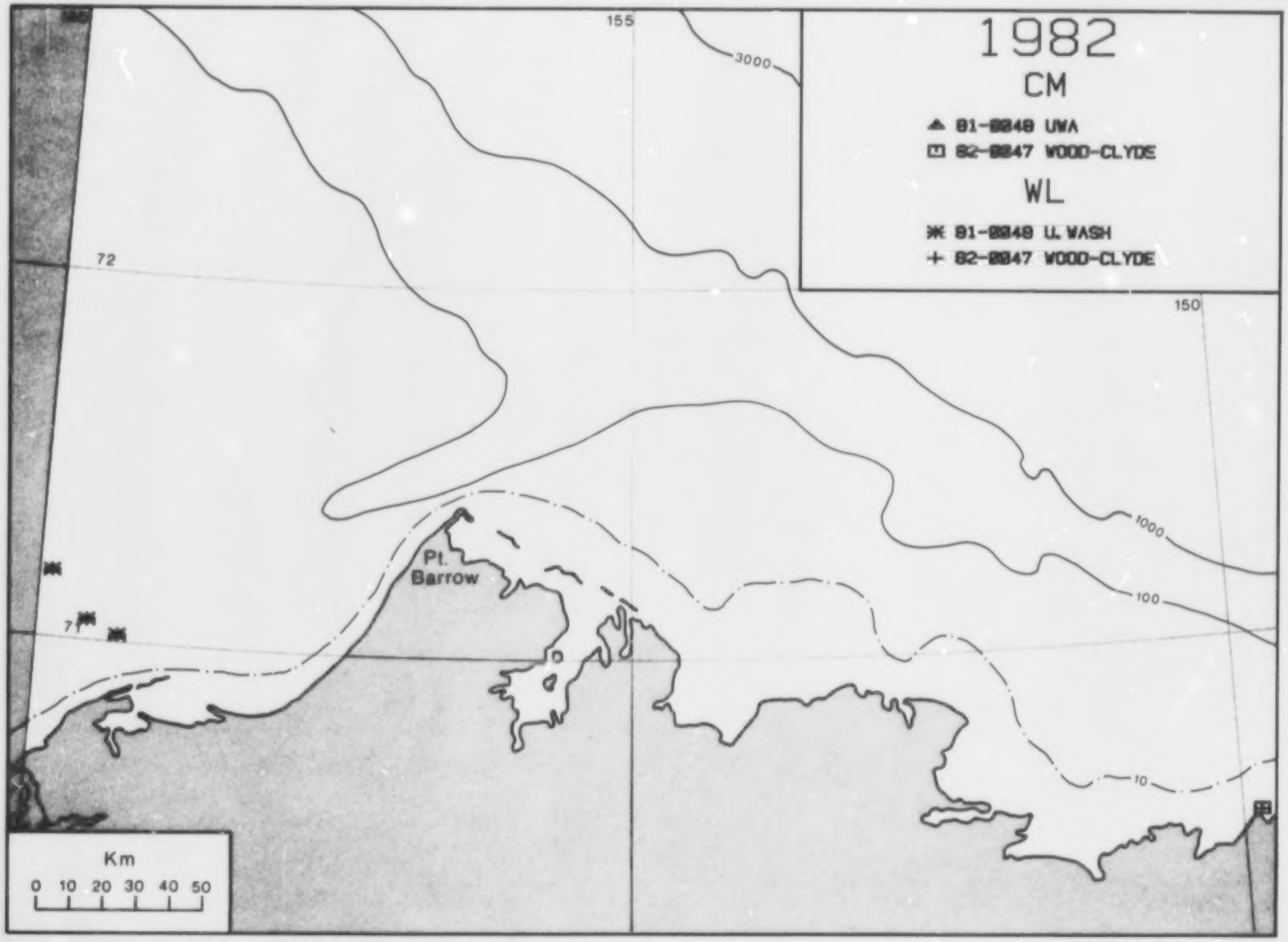

3000
1000
100
10
72
71
70
Prudhoe Bay
1981
CM
▲ 81-0037 USCG
□ 81-0046 EXXON
▼ 81-0051 WOOD-CLYDE
◆ 81-0052 WOOD-CLYDE
WL
✳ 76-0055 NOAA
+ 80-0046 NOAA
× 81-0033 WOODWARD-CLYDE
◇ 81-0044 NOAA
⊙ 81-0049 OSI
⧗ 81-0051 WOOD-CLYDE
◀ 81-0052 WOOD-CLYDE
NOT PLOTTED
81-0038 WOOD-CLYDE
81-0042 OSI
CENTRAL LOCATION ONLY
81-0051 WOOD-CLYDE
81-0052 WOOD-CLYDE
Km
0 10 20 30 40 50

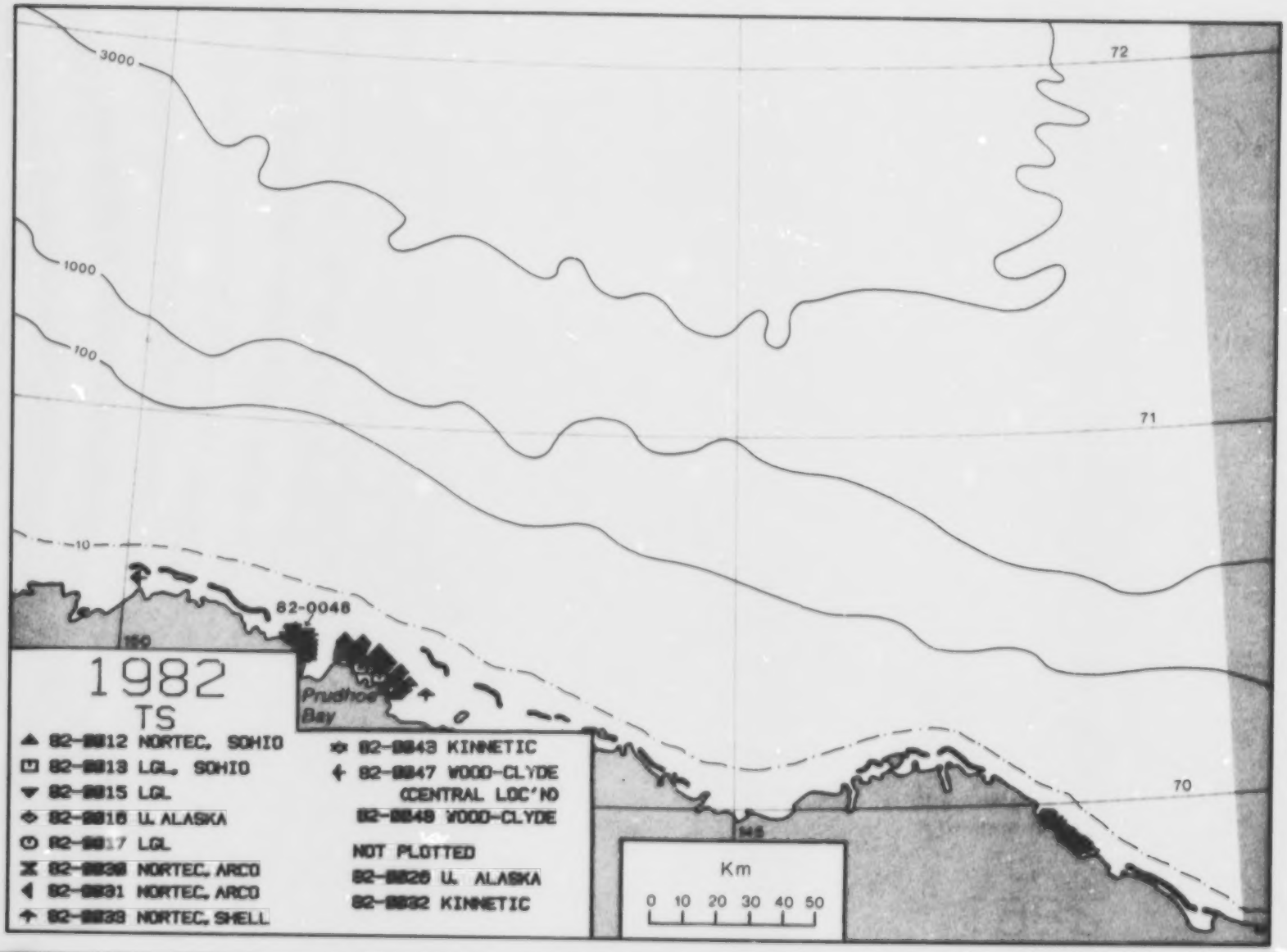

70 30
10
5
5
2
70 20
148 30
Pt. McIntyre
Km
0 1 2 3 4 5
1981
TS
81-0036 LGL
81-0045 U. ALASKA
81-0047 NORTEC, ARCO

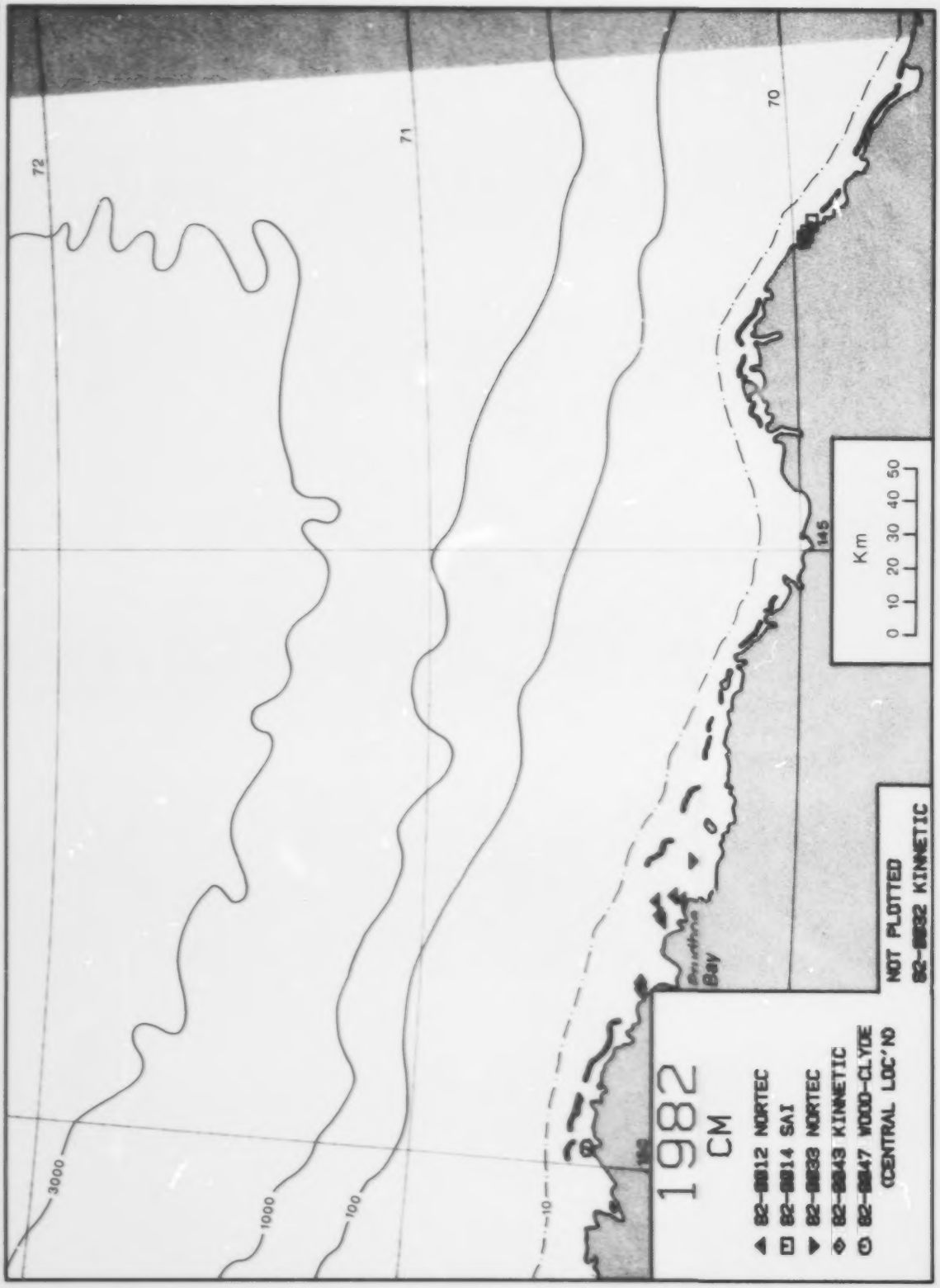

1982
TS
82-0012 NORTEC, SOHIO
82-0013 LGL, SOHIO
82-0015 LGL
82-0016 U. ALASKA
82-0017 LGL
82-0030 NORTEC, ARCO
82-0031 NORTEC, ARCO
82-0033 NORTEC, SHELL
82-0041 U. WASH.
82-0042 U. WASH.
82-0043 KINNETIC
82-0047 WOOD-CLYDE
82-0048 WOOD-CLYDE
NOT PLOTTED
82-0026 U. ALASKA
82-0032 KINNETIC
3000
3000
3000
1000
85
100
Km
0
100

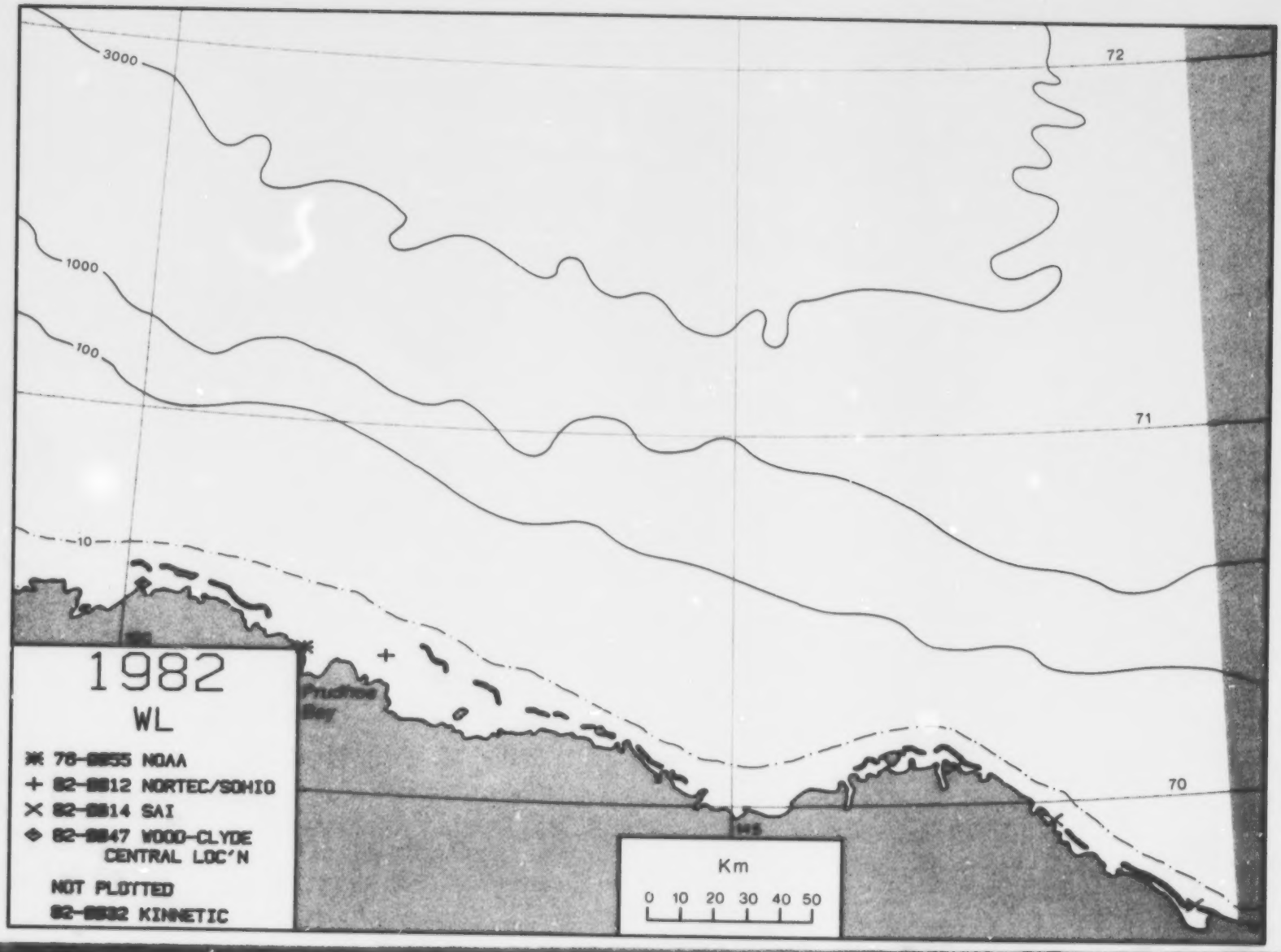

1982
CM
81-0048 UMA
82-0012 NORTEC
82-0014 SAI
82-0033 NORTEC
82-0043 KINNETIC
82-0047 WOOD-CLYDE
DRF
82-0014 SAI
82-0048 UL WASH
82-0033 CARMAR
WL
78-0055 NOAA
81-0048 UL WASH
82-0012 NORTEC/SOHIO
82-0014 SAI
82-0047 WOOD-CLYDE
NOT PLOTTED
82-0027 DSI
3000
1000
85
80
120
Km
0 100

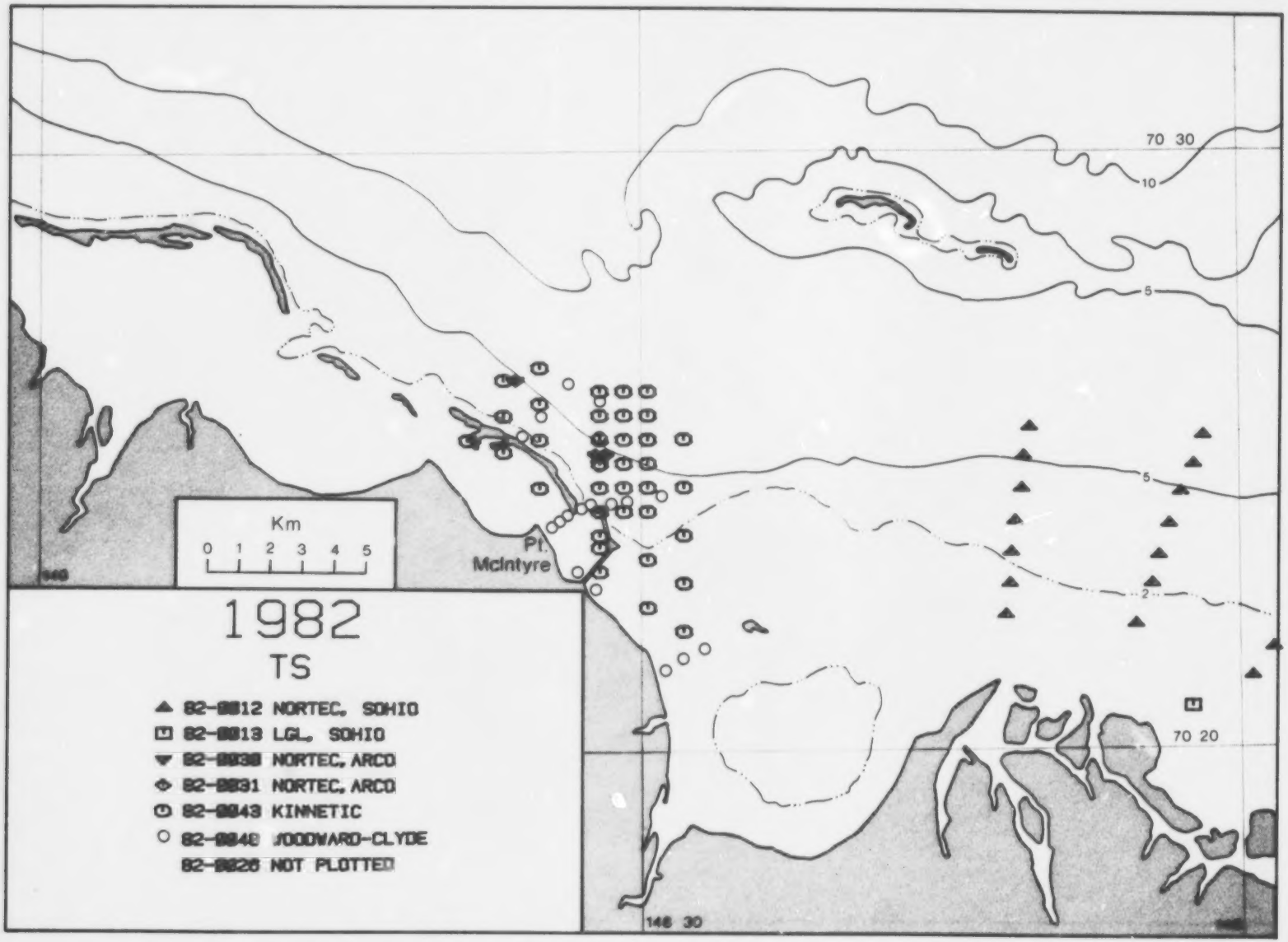

1982
TS
82-0041 U. WASH., HELIC.
82-0042 U. WASH., DISC.
82-0047 WOOD-CLYDE
155
150
72
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

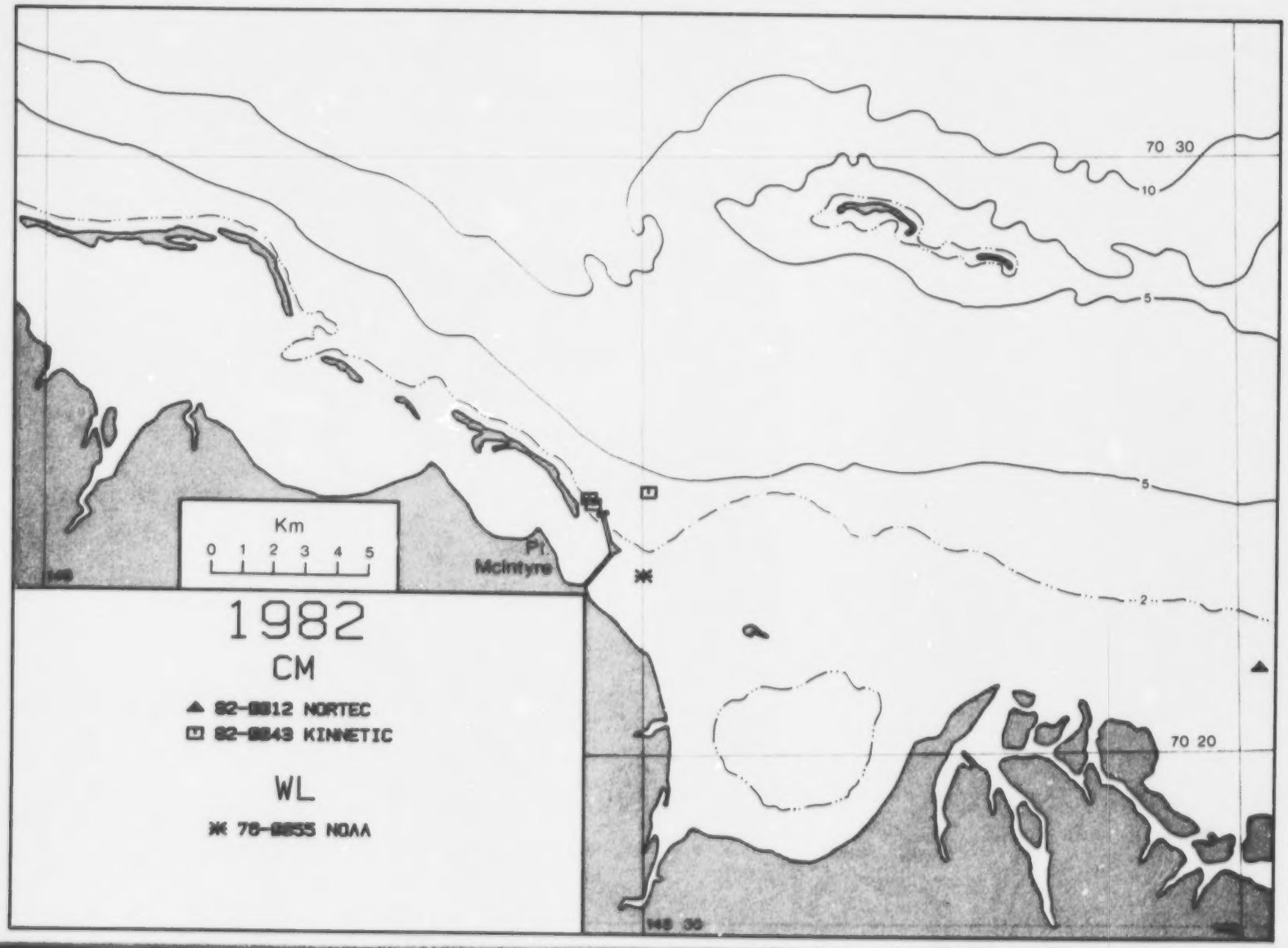

1982
CM
81-0048 UWA
82-0047 WOOD-CLYDE
WL
81-0048 U. WASH
82-0047 WOOD-CLYDE
155
150
72
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

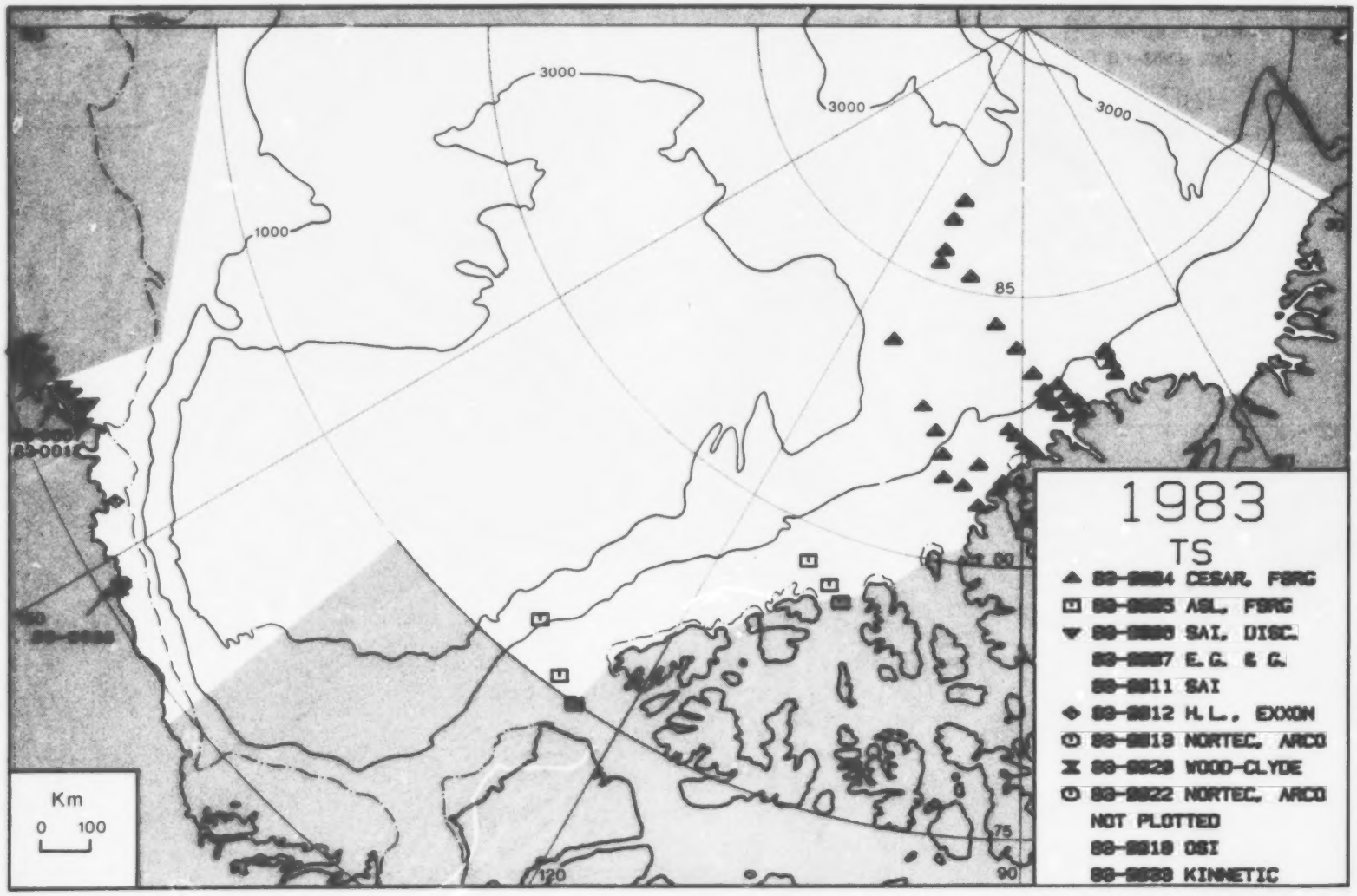

3000
1000
100
10
72
71
70
150
145
82-0048
Prudhoe Bay
1982
TS
82-0012 NORTEC, SOHIO
82-0013 LGL, SOHIO
82-0015 LGL
82-0016 U. ALASKA
82-0017 LGL
82-0030 NORTEC, ARCO
82-0031 NORTEC, ARCO
82-0039 NORTEC, SHELL
82-0043 KINNETIC
82-0047 WOOD-CLYDE
CENTRAL LOC'N
82-0049 WOOD-CLYDE
NOT PLOTTED
82-0026 U. ALASKA
82-0032 KINNETIC
Km
0 10 20 30 40 50

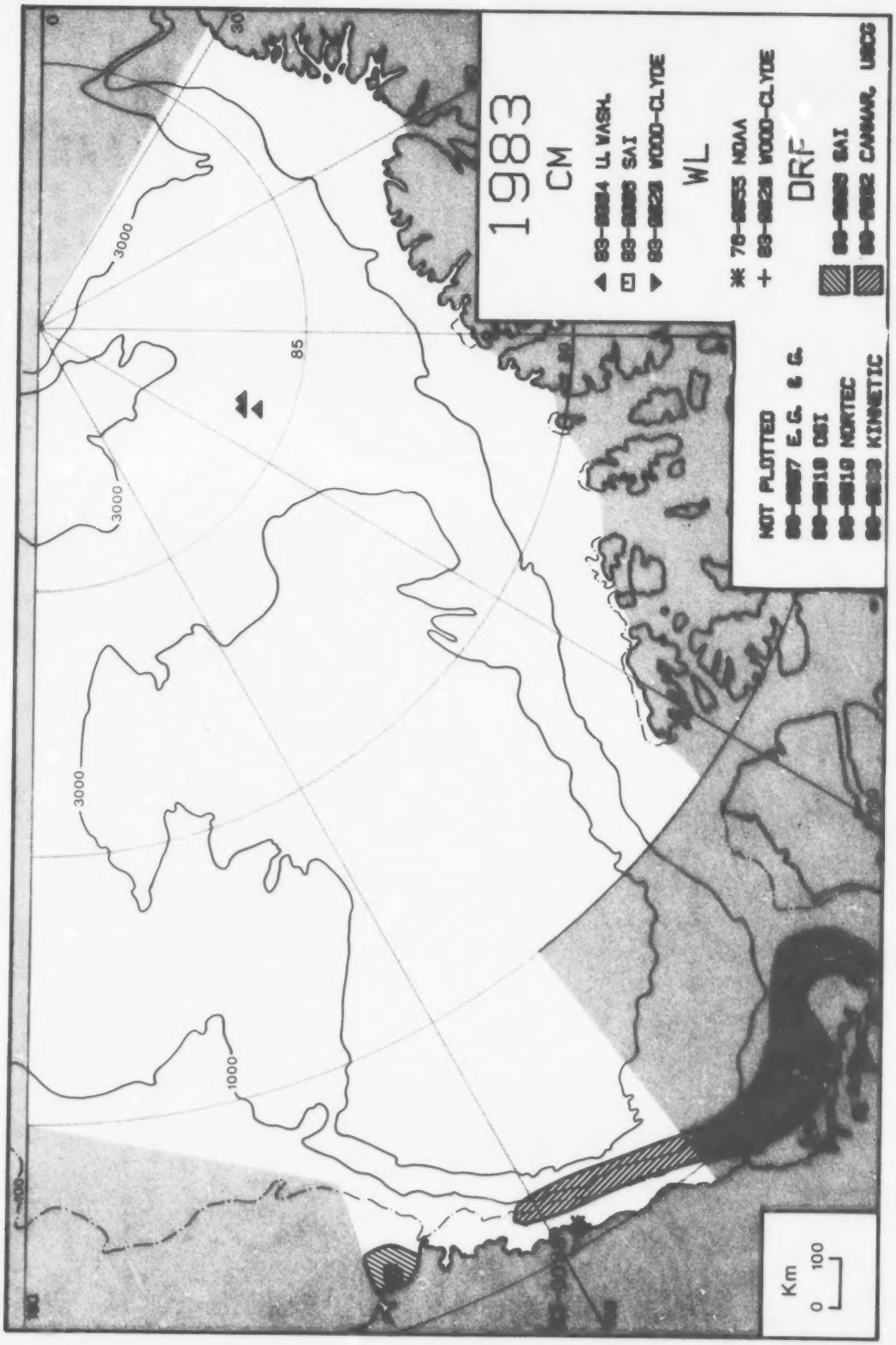

1982
CM
82-0012 NORTEC
82-0014 SAI
82-0033 NORTEC
82-0043 KINNETIC
82-0047 WOOD-CLYDE
(CENTRAL LOC'N)
NOT PLOTTED
82-0032 KINNETIC
Km
0 10 20 30 40 50
Bay
3000
1000
100
10
72
71
70
145

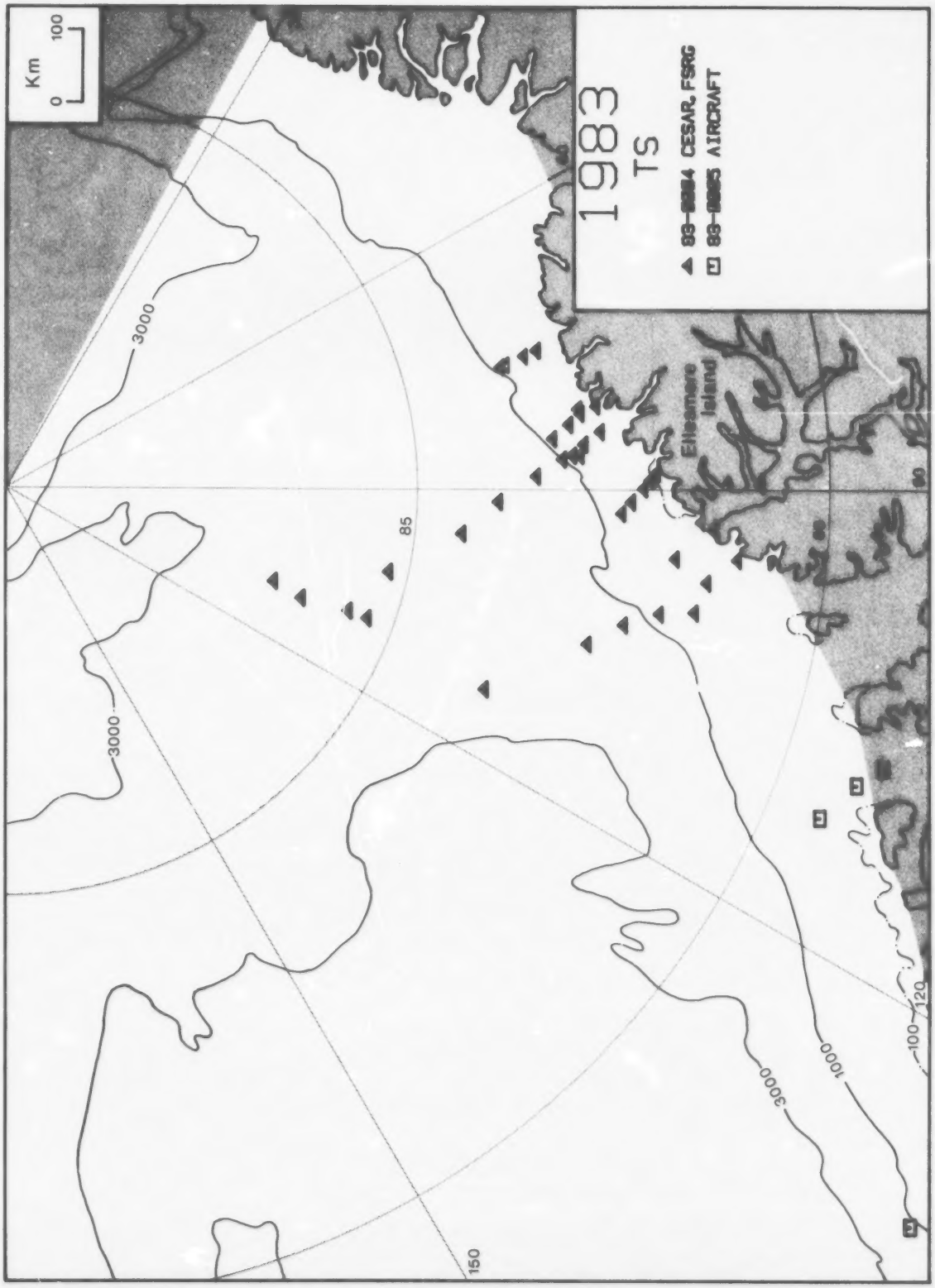

3000
1000
100
10
72
71
70
Prudhoe Bay
1982
WL
78-0855 NOAA
82-0812 NORTEC/SOHIO
82-0814 SAI
82-0847 WOOD-CLYDE
CENTRAL LOC'N
NOT PLOTTED
82-0832 KINNETIC
Km
0 10 20 30 40 50

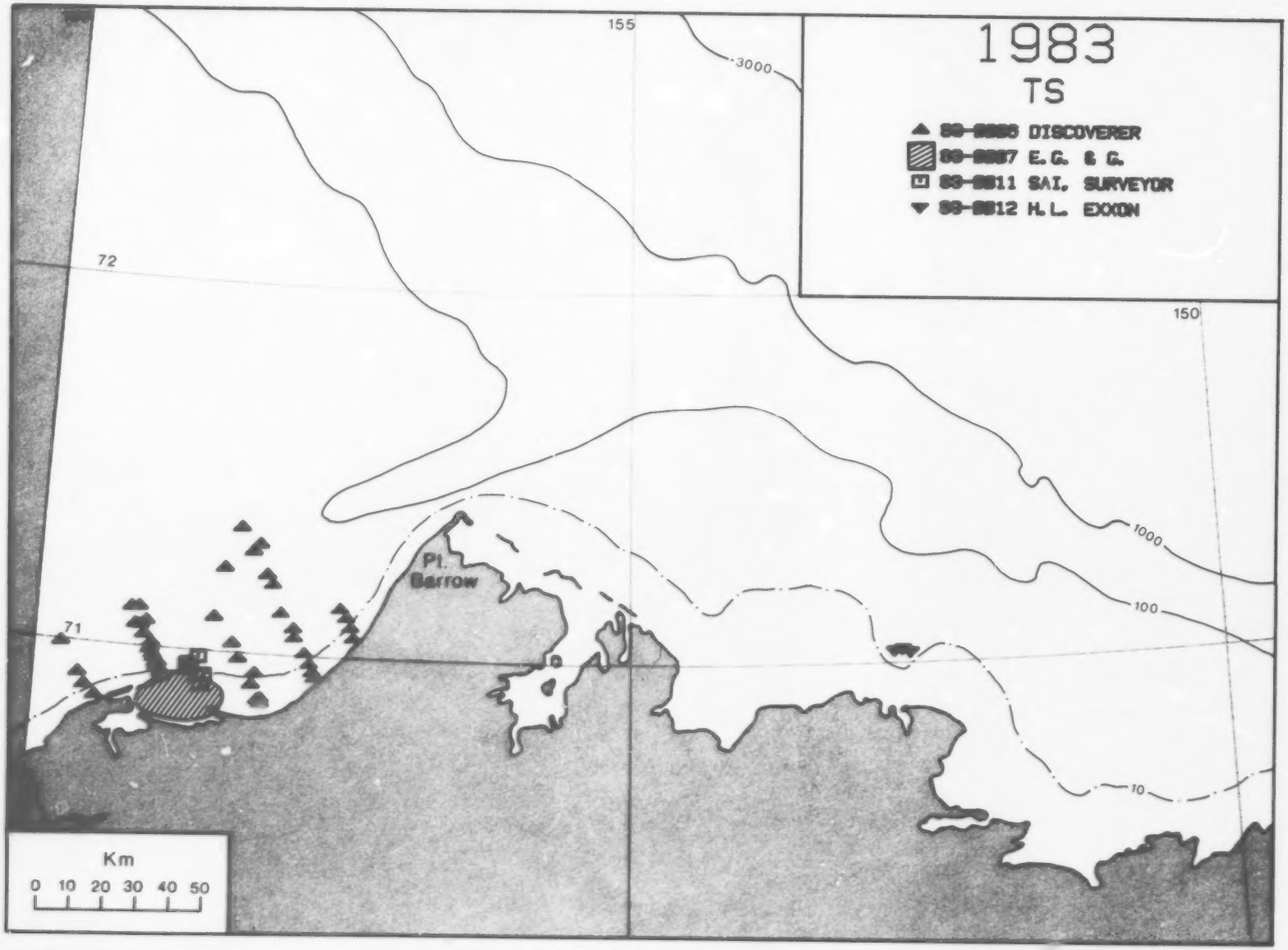

70 30
10
5
5
2
70 20
148 30
Km
0 1 2 3 4 5
Pt.
McIntyre
1982
TS
82-0012 NORTEC, SOHIO
82-0013 LGL, SOHIO
82-0030 NORTEC, ARCO
82-0031 NORTEC, ARCO
82-0043 KINNETIC
82-0048 WOODWARD-CLYDE
82-0026 NOT PLOTTED


70 30
10
5
5
2
70 20
Km
0 1 2 3 4 5
Pt. McIntyre
1982
CM
▲ 82-0012 NORTEC
82-0043 KINNETIC
WL
✱ 78-0055 NOAA

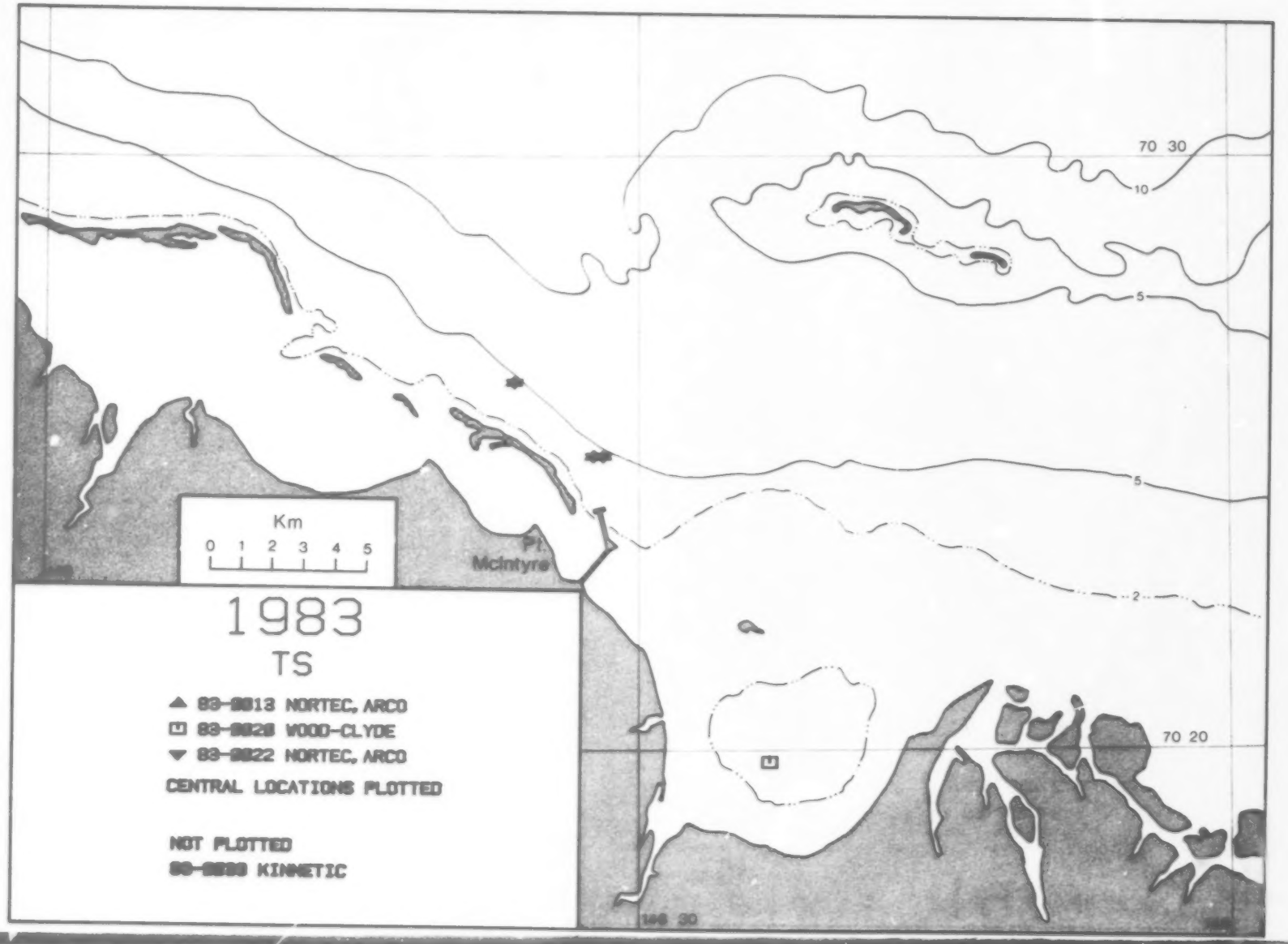

3000
3000
3000
1000
85
80
75
90
120
Km
0 100
1983
TS
CESAR, FSRG
ASL, FSRG
SAI, DISC.
E.G. & G.
SAI
H.L., EXXON
NORTEC, ARCO
WOOD-CLYDE
NORTEC, ARCO
NOT PLOTTED
OSI
KINNETIC

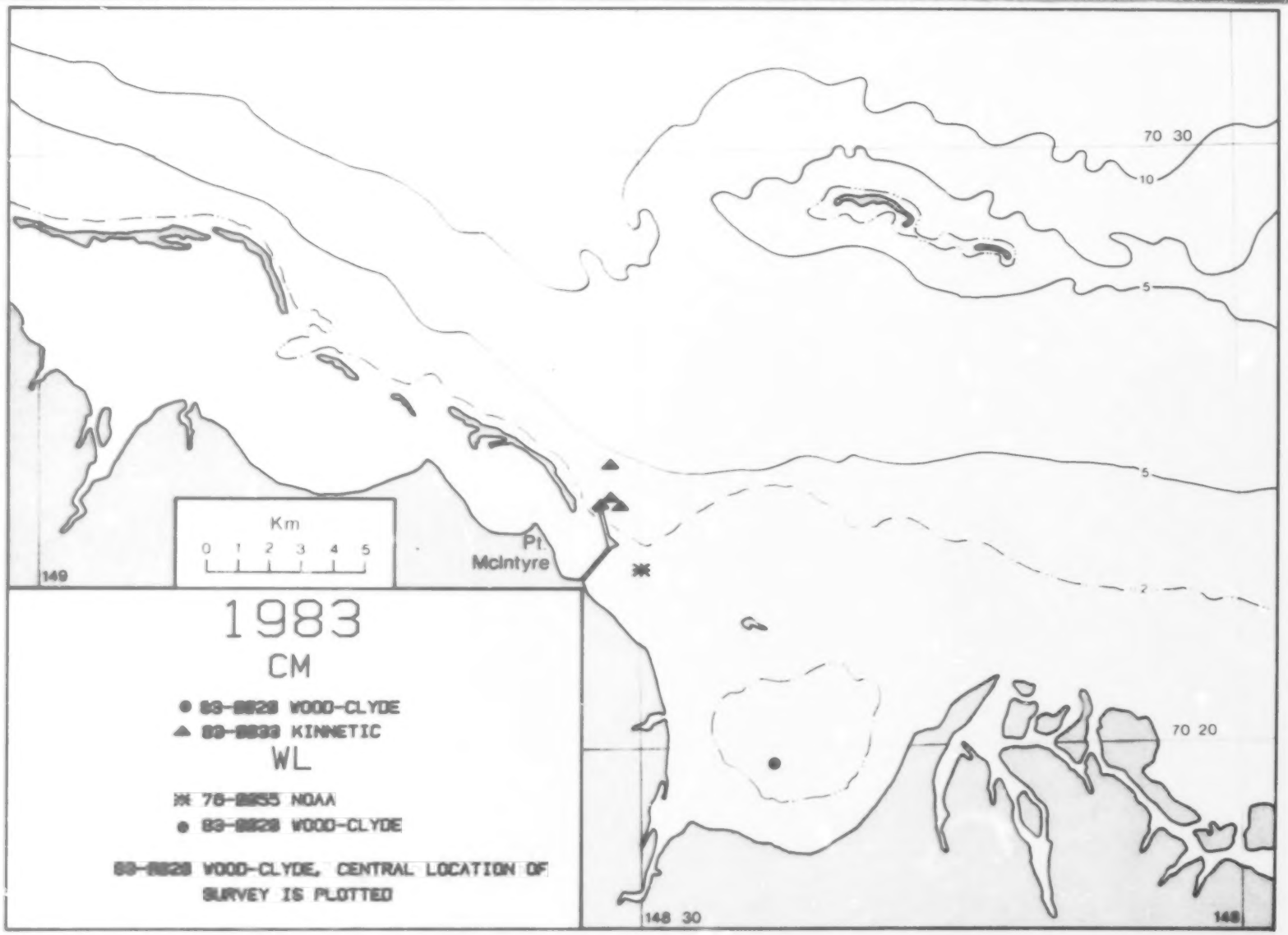

1983
CM
WL
DRF
NOT PLOTTED
3000
1000
85
Km
0
100


Km
0
100
1983
TS
▲ 83-[redacted]4 CESAR, FSRG
□ 83-[redacted]5 AIRCRAFT
Ellesmere Island
3000
3000
85
150
3000
1000
100
120
80


1983
TS
DISCOVERER
E.G. & G.
SAI. SURVEYOR
H.L. EXXON
155
150
72
71
3000
1000
100
10
Pt. Barrow
Km
0 10 20 30 40 50

1983
CM
SAI
E.G.&G.
155
150
72
71
3000
1000
100
10
Pt.
Barrow
Km
0 10 20 30 40 50


70 30
10
5
5
2
70 20
146 30
Km
0 1 2 3 4 5
Pt. McIntyre
1983
TS
▲ 83-0013 NORTEC, ARCO
□ 83-0020 WOOD-CLYDE
▼ 83-0022 NORTEC, ARCO
CENTRAL LOCATIONS PLOTTED
NOT PLOTTED
83-0020 KINNETIC


70 30
10
5
5
2
70 20
Km
0 1 2 3 4 5
Pt.
McIntyre
149
148 30
148
1983
CM
● 83-0020 WOOD-CLYDE
▲ 83-0030 KINNETIC
WL
76-0055 NOAA
● 83-0020 WOOD-CLYDE
83-0020 WOOD-CLYDE, CENTRAL LOCATION OF
SURVEY IS PLOTTED

10. INDEXES

This section contains three indexes to the data sets. The first is a geographical index which provides a listing by sub-areas (Figure 1). All data sets with any measurements in a particular sub-area are listed by number under that sub-area.

The second index classifies the data sets by measurement type, under the following headings:

Temperature and salinity-bottle	: measurements at discrete points in the water column
Profiles of temperature and salinity	: measurements made with a profiling instrument such as a CTD
Water levels, bottom pressure	: measurements from shore-based tide stations or bottom pressure gauges
Eulerian currents	: measurements of current velocity at a fixed point with a current meter

The third index lists references for each data set by number. The data set number appears at the left hand side of the page, with references listed to the right. The main references are listed followed by other interpretive or analytical references, indented with respect to the main references. The list of interpretive or analytical references may not be complete.

10.1 GEOGRAPHICAL

Mendeleyev Ridge

41-0001
48-0007
50-0008
54-0015
56-0012
57-0011
57-0013
59-0016
63-0013?
66-0015
66-0019
67-0019
73-0034

Chukchi Abyssal Plain

49-0005
50-0007
50-0008
51-0001
54-0013?
59-0015
59-0016
61-0026
64-0015
66-0015
67-0024
68-0021
73-0034

Chukchi Plateau

49-0005
50-0007
54-0013?
56-0012
59-0015
59-0016

Northwind Ridge

51-0001
54-0001?
56-0012
66-0015

Northwind Abyssal Plain

50-0008
51-0001
54-0013?
56-0012
66-0015
66-0018

Northeast Chukchi

35-0001
37-0005
38-0003
47-0002
48-0006
55-0001
56-0001
56-0012
59-0014
61-0024
62-0021
68-0023
71-0023
72-0030
72-0040
72-0041
73-0026
74-0038
74-0048
76-0043
76-0042
76-0051
77-0046
77-0047
77-0049
78-0043
81-0035
81-0048
82-0041
82-0042
83-0006
83-0007

Lomonosov Ridge

54-0013
54-0014
54-0015
55-0017
57-0013
58-0013
63-0016
64-0013
64-0014
75-0067
79-0050

Makarov Basin

48-0007
49-0005
50-0008
52-0010?
54-0013
54-0014
54-0015
55-0007
57-0013
58-0013?
60-0014
61-0025
63-0016
66-0019
79-0050

Alpha Ridge

49-0005
50-0008
52-0010
54-0013
55-0017
56-0012
57-0011
66-0019
68-0020
68-0021
69-0024
69-0025
69-0027
70-0022
70-0026
70-0027
70-0029
71-0031
71-0032
71-0034
72-0033
73-0035
78-0044
83-0004

North of Barrow

48-0006
54-0002
56-0011
56-0014
57-0015
61-0024
66-0020
68-0031
70-0036
71-0042
71-0044
72-0030
72-0045
74-0037
74-0039
74-0046
75-0053
75-0054
75-0055
75-0056
75-0072
76-0043
76-0044
77-0046
77-0047
77-0048
77-0050
77-0053
80-0048
80-0049

Canada Basin

41-0001
49-0005
50-0001
50-0007
50-0008
51-0001
51-0011
52-0009
54-0015
56-0001
56-0012
57-0002
57-0011
57-0012
57-0013
57-0014
58-0001
58-0010
58-0011
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59-0002
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59-0015
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60-0002
60-0007
60-0013
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69-0025
69-0028
70-0001
70-0026
70-0027
70-0028
70-0029
71-0003
71-0020
72-0035
73-0034
75-0005
78-0044
78-0046
79-0002
80-0001
81-0041?
83-0005

Alaskan Slope

50-0001
51-0001
51-0011
52-0002
54-0013?
56-0001
57-0002
58-0001
58-0010
59-0001
59-0002
59-0014
60-0001
60-0002
65-0014
69-0001
71-0020
72-0027
75-0052
75-0053
75-0054
75-0055
76-0037
76-0039
76-0040
77-0044
77-0045
78-0032
79-0040
79-0048
80-0047
80-0048
80-0049
81-0037
81-0038
82-0050
83-0032

Harrison Bay

35-0001
52-0012
69-0022
71-0021
71-0022
71-0023
71-0025
71-0026
71-0033
71-0043
72-0028
72-0034
72-0039
73-0038
75-0057
77-0055
77-0056
79-0047
80-0037
80-0038
80-0039
80-0040
80-0042
81-0045
82-0026
82-0027
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Stefansson Sound

55-0001
55-0016
56-0001
56-0014
72-0032
75-0059
78-0036
79-0044
79-0047
78-0059
80-0054
81-0044
82-0033

Dease Inlet

45-0001
71-0043
73-0028
77-0063

Simpson Lagoon

70-0021
70-0035
71-0022
71-0025
71-0040
72-0029
72-0031
72-0032
75-0057
75-0072
77-0051
77-0052
77-0054
78-0033
78-0034
78-0036
78-0046
78-0047
79-0045
79-0046
79-0048
79-0061
80-0039
80-0041
81-0051
82-0047

Elson Lagoon

66-0020
68-0031
71-0026
73-0020
73-0028
77-0063

M'Clintock Inlet

66-0014
69-0021

Phillips Inlet

67-0013

Alaskan Shelf

1883-1
06-0001
14-0002
35-0001
37-0001
37-0005
38-0003
48-0006
48-0008
49-0004
49-0006
50-0001
50-0009
51-0001
51-0010
51-0011
52-0002
52-0012
54-0001
54-0002
55-0001
55-0015
55-0019
56-0001
56-0011
56-0014
57-0002
57-0015
58-0001
58-0010
59-0001
59-0002
59-0014
60-0001
60-0002
61-0024
61-0027
62-0021
68-0017
69-0001
69-0022
69-0026
71-0020
71-0021
71-0023
71-0024
71-0026
71-0043
72-0027
72-0032
72-0040
73-0026
73-0027
73-0037
73-0043
74-0037
74-0039
74-0048
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75-0052
75-0055
75-0056
75-0059
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76-0039
76-0040
76-0041
76-0045
76-0054
76-0057
77-0044
77-0054
77-0069
78-0058
79-0048
79-0058
80-0001
80-0044
80-0046
80-0047
80-0050
81-0037
81-0045
81-0046
81-0049
81-0052
82-0012
82-0013
82-0014
82-0015
82-0016
82-0017
82-0032
83-0012
83-0018

Gustaf Adolf Sea

60-0007
83-0005

Prudhoe Bay

71-0022
71-0035
71-0040
71-0044
72-0032
73-0045
75-0059
75-0072
75-0073
76-0045
76-0046
76-0058
77-0051
77-0052
77-0053
78-0033
78-0035
78-0045
79-0041
79-0042
79-0043
79-0047
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79-0061
80-0039
80-0041
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81-0033
81-0036
81-0045
81-0047
82-0026?
82-0030
82-0031
82-0043
82-0048
83-0013
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83-0022
83-0033

Sag Delta

81-0046
82-0012
82-0013

Colville River

71-0033
73-0038
81-0045

Angun Lagoon

82-0015

Camden Bay

14-0002
55-0001
72-0027

Beaufort Sea

50-0001
57-0002
58-0001
59-0002
59-0014
60-0001

Amundsen Basin

37-0006
48-0007
54-0014
58-0013
64-0013
64-0014
78-0044

Lincoln Sea

05-0001
08-0004
60-0016
67-0011
71-0013
72-0039

Markham Inlet

69-0021

Disraeli Fiord

63-0015
66-0014
67-0010
68-0016
69-0021
71-0036

10.2 MEASUREMENT TYPE INDEX

Temperature & Salinity - Bottle			Temperature & Salinity - Continuous Profiles		Eulerian Currents		Water Levels, Bottom Pressure
35-0001	60-0007	70-0001	69-0028	78-0035	37-0006	81-0033	1883-1
37-0001	60-0013	70-0021	70-0035	78-0043	50-0007	81-0035	05-0001
37-0005	60-0014	70-0025	71-0020	79-0041	54-0014	81-0037	06-0001
37-0006	60-0015	70-0026	71-0023	79-0042	54-0015	81-0042	08-0004
38-0003	60-0019	70-0027	71-0024	79-0043	56-0013	81-0046	14-0002
41-0001	61-0024	71-0003	71-0033	80-0037	60-0014	81-0048	45-0001
48-0006	61-0025	71-0013	71-0035	80-0041	63-0012	82-0012	47-0002
48-0007	61-0026?	71-0020	71-0040	80-0048	63-0013	82-0014	48-0008
49-0005	62-0021	71-0021	72-0027	80-0049?	65-0013	82-0027	49-0004
49-0006	62-0022	71-0025	72-0030	81-0033	67-0012	82-0033	50-0009
50-0001	62-0023	71-0026	72-0031	81-0035	70-0001	82-0043	51-0010
50-0007	63-0012	71-0031	72-0032	81-0036	70-0022	82-0047	52-0012
50-0008	63-0013	71-0032	72-0035	81-0037	71-0003	83-0004	55-0015
57-0001	63-0015	71-0034	72-0041	81-0048?	71-0022	83-0006	56-0011
51-0011	63-0016?	71-0044	73-0026	82-0012	71-0024	83-0020	60-0016
52-0002	64-0008	72-0028	73-0038	82-0013	72-0027	83-0033	61-0027
52-0009	64-0013	72-0029	73-0045	82-0015	72-0029		67-0010
52-0010	64-0014	72-0033	74-0037	82-0017	72-0035		68-0008
54-0001	64-0016?	72-0038	74-0038	82-0030?	73-0027		68-0016
54-0002	64-0017	72-0039	74-0039	82-0031	73-0037		69-0026
54-0013	65-0013	72-0040	74-0046	82-0033	74-0046		70-0021
54-0014	65-0014	73-0028	74-0048?	82-0041	75-0005		71-0036
54-0015	65-0016	73-0034	75-0005	82-0042	75-0068		75-0058
55-0001	65-0022?	73-0035	75-0052	82-0043	76-0038		75-0068
55-0017	66-0014	73-0043	75-0053	82-0047	76-0039		76-0041
55-0019	66-0015	74-0051	75-0054	82-0048	76-0041		76-0053
56-0001	66-0018	75-0057	75-0055	83-0004	76-0054		76-0054
56-0012	66-0020	75-0072	75-0056	83-0005	77-0044		76-0055
56-0013	67-0010	76-0057	75-0059	83-0006	77-0045		77-0052
56-0014	67-0011	77-0052	75-0073	83-0007?	77-0052		78-0033
57-0002	67-0013	77-0063?	76-0037	83-0020	78-0032		78-0036
57-0011	67-0019	77-0069	76-0039?	83-0033	78-0033		78-0045
57-0012	67-0020	78-0046?	76-0040		78-0034		79-0045
57-0013	67-0021	78-0047?	76-0043		78-0035		79-0046
57-0014	67-0024	78-0058	76-0044		78-0036		79-0057
57-0015	68-0015	78-0059	76-0045		78-0045		80-0038
58-0001	68-0016	79-0048?	76-0046		79-0040		80-0044
58-0010	68-0017	79-0050	76-0051		79-0041		80-0046
58-0011	68-0019	79-0061	77-0044		79-0042		80-0050
58-0013	68-0020	80-0039?	77-0046		79-0043		81-0033
59-0001	68-0021	80-0054?	77-0047		79-0045		81-0042
59-0002	68-0023	81-0047?	77-0048		79-0046		81-0044
59-0014	69-0001	82-0016?	77-0049		79-0050		81-0048
59-0015	69-0021	83-0013	77-0050		79-0057		81-0049
59-0016	69-0022	83-0022?	77-0051		79-0058		82-0012
60-0001	69-0024		77-0054		80-0038		82-0014
60-0002	69-0025		78-0033?		80-0050		82-0027
			78-0034				82-0047
							83-0020

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11. LISTING OF MEASUREMENT LOCATIONS AND OTHER PARAMETERS, BY YEAR

This section gives detailed listings of measurement locations and times for each of the data sets plotted on the maps in Section 9. (Drifter data sets whose measurement locations were plotted as shaded areas only are not listed.) There are separate listings for temperature-salinity data, current meter data and water level data. Each listing is ordered by data set number. An explanation of the format appears at the start of each listings. Only data collected within the area of this inventory is listed here; measurements taken elsewhere may be found in the inventories for those areas. The 1975-1976 AIDJEX temperature-salinity and profiling current meter dare are listed separately in sections 11.4 and 11.5, respectively.

11.1 TEMPERATURE-SALINITY DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source.
LAT, LONG	In degrees and minutes.
YR	Year
MO	Month
DY	Day
HR	Hour; GMT unless specified otherwise
CAST TO	Maximum depth of data, in metres.
WATER DEPTH	In metres, if available.
PARAM MEAS	Parameters measured - conductivity, salinity, temperature. Each parameter measured is qualified by one of the following: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings over parts of record O - zero or obviously bad readings
INSTR	Instrument type: AAND - Aanderaa current meter AMS - Applied Microsystems CTD APL - Applied Physics Lab. CTD BECK - Beckman BISS - Bisset Berman STD BOTT - bottle sample GLDL - Guildline CTD HYD - Hydrometer HYDR - Hydrolab salinometer HYT - Hytech induction salinometer INTO - Interocean CTD MART - Martec data logger NB - Neil Brown RS5 - Beckman RS5 YSI - Yellow Springs Instruments Co.
INT(HR)	The time period between repeat stations.
NO	The number of repeat stations.

Blank entries indicate unavailable or inapplicable data.
? implies suspect data, but the only/best data available.

BOTTLE/CTD DATA SET NUMBER: 35-0001
YEAR:1935 VESSEL/AGENCY: ST.ROCHE, RCMP

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		69 45.00	141 20.00	35 07 31	0			X	X	HYD		
ALASKAN SHELF		70 7.00	142 40.00	35 07 29	0			X	X	HYD		
ALASKAN SHELF		70 38.00	150 50.00	35 07 26	0			X	X	HYD		
ALASKAN SHELF		70 58.00	152 55.00	35 07 24	0			X	X	HYD		
ALASKAN SHELF		71 2.00	158 15.00	35 07 17	0			X	X	HYD		
ALASKAN SHELF		71 18.00	155 5.00	35 07 20	0			X	X	HYD		
ALASKAN SHELF		71 19.00	155 5.00	35 07 22	0			X	X	HYD		
ALASKAN SHELF		71 20.00	155 40.00	35 07 18	0			X	X	HYD		
ALASKAN SHELF		71 24.00	155 54.00	35 07 18	0			X	X	HYD		
ALASKAN SHELF		71 25.00	156 20.00	35 07 17	0			X	X	HYD		

BOTTLE/CTD DATA SET NUMBER: 37-0001
YEAR:1937 VESSEL/AGENCY: ST.ROCHE, RCMP

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70 17.00	142 51.00	37 09 05	0			X	X	HYD		
ALASKAN SHELF		70 30.00	146 25.00	37 09 05	0			X	X	HYD		
ALASKAN SHELF		70 56.00	150 57.00	37 09 06	0			X	X	HYD		

BOTTLE/CTD DATA SET NUMBER: 37-0005
YEAR:1937 VESSEL/AGENCY: NORTHLAND?

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	323	70 55.00	158 57.00	37 8 23 11	20			X	X	BOTT		
ALASKAN SHELF	376	70 40.00	159 53.00	37 8 15 20	10			X	X	BOTT		
ALASKAN SHELF	377	70 40.00	159 53.00	37 8 16 11	10			X	X	BOTT		
ALASKAN SHELF	378	70 40.00	159 53.00	37 8 16 18	10			X	X	BOTT		
ALASKAN SHELF	379	70 40.00	159 53.00	37 8 16	10			X	X	BOTT		
ALASKAN SHELF	380	70 40.00	159 53.00	37 8 19 24	10			X	X	BOTT		
ALASKAN SHELF	381	70 40.00	159 53.00	37 8 22 22	10			X	X	BOTT		
ALASKAN SHELF	382	70 40.00	159 53.00	37 8 23 20	10			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 37-0006
YEAR:1937 VESSEL/AGENCY: SOVIET ICE STATION NP-1

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	88 52.00	23 48.00	37 06 06				X	X			
AMUNDSEN BASIN	2	88 53.00	20 21.00	37 06 07				X	X			
	3	88 50.00	2 6.00	37 06 15				X	X			
	4	88 46.00	10 1.00	37 06 20				X	X			
	5	88 32.00	12 33.00	37 07 01				X	X			

6	88	9.00	2	26.00	37	07	14		X	X
7	88	3.00	5	31.00	37	07	22		X	X
8	88	1.00	6	3.00	37	07	25		X	X
9	88	2.00	3	41.00	37	08	05		X	X
10	87	41.00	2	20.00	37	08	10		X	X
11	87	14.00	359	14.00	37	08	13		X	X
12	87	7.00	357	43.00	37	08	17		X	X
13	87	3.00		55.00	37	08	27		X	X
14	86	39.00	1	4.00	37	09	03		X	X
15	86	9.00	359	2.00	37	09	12		X	X
16	85	40.00	358	58.00	37	09	24		X	X
17	85	24.00	356	25.00	37	09	30		X	X
18	85	3.00	354	26.00	37	10	08		X	X
19	84	43.00	353	45.00	37	10	15		X	X
20	84	33.00	356	18.00	37	10	19		X	X
21	84	13.00	357	13.00	37	10	25		X	X
22	83	49.00	357	26.00	37	11	03		X	X
23	83	55.00	359	17.00	37	11	09		X	X
24	83	47.06	2	1.00	37	11	13		X	X
25	83	25.00	3	26.00	37	11	20		X	X
26	82	45.00	6	9.00	37	11	30		X	X
27	82	21.00	6	24.00	37	12	08		X	X
28	81	51.00	7	11.00	37	12	16		X	X
29	80	58.00	6	43.00	37	12	24		X	X
30	80	23.00	6	59.00	37	12	27		X	X
31	79	59.00	7	12.00	37	12	29		X	X
32	79	32.00	7	25.00	38	01	03		X	X
33	79	2.00	8	36.00	38	01	06		X	X
34	78	28.00	9	55.00	38	01	09		X	X
35	78	8.00	10	32.00	38	01	12		X	X
36	77	37.00	12	2.00	38	01	16		X	X
37	77	10.00	12	26.00	38	01	18		X	X
38	76	24.00	13	40.00	38	01	25		X	X

BOTTLE/CTD DATA SET NUMBER: 38-0003
YEAR:1938 VESSEL/AGENCY: NORTHLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	316	70	38.00	159	47.00	38	8	5	21	5			X	X	BOTT		
ALASKAN SHELF	351	70	42.00	159	58.00	38	8	3	13	11			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 41-0001
YEAR:1941 VESSEL/AGENCY: N-169, USSR AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MENDELEYEV RIDGE	1	81	28.00	178	49.00	41	04	03		2637	2657		X	X			
MENDELEYEV RIDGE	2	81	32.00	179	58.00	41	04	05					X	X			
MENDELEYEV RIDGE	3	81	32.00	180	48.00	41	04	05		2000	2427		X	X			
MENDELEYEV RIDGE	4	78	28.00	183	16.00	41	04	13		1825	1856		X	X			
MENDELEYEV RIDGE	5	78	27.00	176	32.00	41	04	15					X	X			
MENDELEYEV AB PL	6	79	54.00	169	50.00	41	04	23		3350	3370		X	X			
MENDELEYEV AB PL	7	79	53.00	169	53.00	41	04	25					X	X			
MENDELEYEV AB PL	9	79	53.00	169	59.00	41	04	28		1000	3368		X	X			

BOTTLE/CTD DATA SET NUMBER: 48-0006
YEAR:1948 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	10	71 5.00	158 53.00	48	07	24	9	31			X	X	BOTT		
ALASKAN SHELF	11	71 12.00	158 3.00	48	07	24	11	45			X	X	BOTT		
ALASKAN SHELF	12	71 20.00	156 55.00	48	07	26	18	18			X	X	BOTT		
ALASKAN SHELF	13	71 39.00	155 22.00	48	07	26	22	64			X	X	BOTT		
ALASKAN SHELF	14	71 38.00	154 42.00	48	07	27	4	46			X	X	BOTT		
ALASKAN SHELF	15	71 23.00	156 40.00	48	07	28	21	33			X	X	BOTT		
ALASKAN SHELF	16	71 24.00	156 36.00	48	07	28	22	20			X	X	BOTT		
ALASKAN SHELF	17	71 28.00	156 30.00	48	07	28	22	33			X	X	BOTT		
ALASKAN SHELF	18	71 29.00	156 25.00	48	07	29		10			X	X	BOTT		
ALASKAN SHELF	19	71 32.00	156 26.00	48	07	30	20	37			X	X	BOTT		
ALASKAN SHELF	20	71 28.00	155 42.00	48	07	30	22	40			X	X	BOTT		
ALASKAN SHELF	21	71 37.00	155 26.00	48	07	31	5	45			X	X	BOTT		
ALASKAN SHELF	22	71 27.00	157 55.00	48	08	01	21	67			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 48-0007
YEAR:1948 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MAKAROV BASIN	4	87 4.00	160 5.00	48	04	28					X	X			
AMUNDSEN BASIN	5	89 55.00	25 0.00	48	04	24					X	X			
MENDELEYEV RIDGE	7	85 15.00	157 20.00	48	05	30					X	X			

BOTTLE/CTD DATA SET NUMBER: 49-0005
YEAR:1949 VESSEL/AGENCY: SOVIET AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	9	81 47.00	166 12.00	49	05	07					X	X			
	10	87 39.00	143 46.00	49	05	12					X	X			
	12	86 17.00	140 46.00	49	05	02					X	X			
ALPHA RIDGE	14	86 16.00	132 5.00	49	05	05					X	X			
ALPHA RIDGE	15	85 33.00	117 50.00	49	05	06					X	X			
	16	85 2.00	145 51.00	49	05	05					X	X			
CANADA BASIN	17	84 25.00	129 47.00	49	05	08					X	X			
CANADA BASIN	18	83 41.00	158 22.00	49	05	06					X	X			
CANADA BASIN	19	83 22.00	143 16.00	49	05	09					X	X			
CANADA BASIN	20	80 6.00	166 13.00	49	05	08					X	X			
CANADA BASIN	21	79 35.00	140 17.00	49	05	08					X	X			
	22	77 57.00	173 36.00	49	05	10					X	X			
CANADA BASIN	23	81 28.00	147 0.00	49	05	12					X	X			
	24	75 45.00	176 51.00	49	05	13					X	X			
CANADA BASIN	25	80 1.00	155 5.00	49	05	10					X	X			
CHUKCHI PLATEAU	26	78 24.00	162 10.00	49	05	11					X	X			
MAKAROV BASIN	5A	88 4.00	174 36.00	49	04	27					X	X			
MAKAROV BASIN	5B	88 24.00	167 39.00	49	05	10					X	X			

BOTTLE/CTD DATA SET NUMBER: 50-0001
YEAR:1950 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	71	7.00	152	31.00	50	8	5	19	17	29		X	X	BOTT		
ALASKAN SHELF	2	71	34.00	156	5.00	50	8	7	1	13			X	X	BOTT		
ALASKAN SHELF	3	71	21.00	156	44.00	50	8	11	20	25	29		X	X	BOTT		
ALASKAN SHELF	4	71	27.00	156	42.00	50	8	11	21	78	101		X	X	BOTT		
ALASKAN SHELF	5	71	34.00	156	40.00	50	8	12	1	150	156		X	X	BOTT		
ALASKAN SHELF	6	71	40.00	156	41.00	50	8	12	4	93	93		X	X	BOTT		
ALASKAN SHELF	7	71	45.00	156	45.00	50	8	12	6	60	71		X	X	BOTT		
ALASKAN SHELF	8	71	51.00	156	45.00	50	8	12	8	33	68		X	X	BOTT		
ALASKAN SHELF	9	71	56.00	156	44.00	50	8	12	10	91	104		X	X	BOTT		
ALASKAN SHELF	10	72	0.00	156	44.00	50	8	12	11	135	132		X	X	BOTT		
	11	72	6.00	156	42.00	50	8	12	18	132	150		X	X	BOTT		
	12	72	12.00	156	20.00	50	8	12	22	225	229		X	X	BOTT		
	13	72	15.00	156	0.00	50	8	13		418	877		X	X	BOTT		
	14	72	19.00	156	15.00	50	8	13	5	570	731		X	X	BOTT		
CANADA BASIN	15	72	22.00	155	27.00	50	8	13	18	1132	1280		X	X	BOTT		
CANADA BASIN	16	72	49.00	155	38.00	50	8	13	24	1778	2830		X	X	BOTT		
CANADA BASIN	17	73	20.00	155	28.00	50	8	14	6	2500	3470		X	X	BOTT		
CANADA BASIN	18	73	47.00	155	10.00	50	8	14	17	2500	4060		X	X	BOTT		
	19	73	28.00	157	13.00	50	8	15	12	2513	2960		X	X	BOTT		
	20	73	17.00	158	36.00	50	8	15	18	1920	2010		X	X	BOTT		
	21	73	14.00	159	18.00	50	8	15	22	993	1170		X	X	BOTT		
	22	73	11.00	160	10.00	50	8	16	1	250	333		X	X	BOTT		
	27	73	35.00	163	40.00	50	8	16	16	160	165		X	X	BOTT		
	28	73	39.00	160	40.00	50	8	16	23	1000	1005		X	X	BOTT		
	29	73	23.00	161	25.00	50	8	17	3	204	234		X	X	BOTT		
ALASKAN SHELF	31	71	20.00	156	44.00	50	8	17	23	29	29		X	X	BOTT		
ALASKAN SHELF	32	70	21.00	141	33.00	50	8	18	24	63	62		X	X	BOTT		
BEAUFORT SEA	52	71	57.00	141	0.00	50	8	24	22	2365	2760		X	X	BOTT		
CANADA BASIN	53	71	48.00	142	52.00	50	8	24	12	2344	3100		X	X	BOTT		
CANADA BASIN	54	72	14.00	145	1.00	50	8	27	19	2395	3360		X	X	BOTT		
CANADA BASIN	55	71	45.00	145	4.00	50	8	28	2	2380	3450		X	X	BOTT		
	56	71	15.00	145	16.00	50	8	28	8	2300	2580		X	X	BOTT		
	57	71	1.00	145	21.00	50	8	28	11	1700	1829		X	X	BOTT		
	58	70	58.00	145	28.00	50	8	28	15	700	915		X	X	BOTT		
	59	70	54.00	145	36.00	50	8	28	16	400	440		X	X	BOTT		
ALASKAN SHELF	60	70	50.00	145	48.00	50	8	28	19	165	187		X	X	BOTT		
ALASKAN SHELF	61	70	46.00	145	56.00	50	8	28	20	50	58		X	X	BOTT		
ALASKAN SHELF	62	70	40.00	146	10.00	50	8	28	22	35	44		X	X	BOTT		
ALASKAN SHELF	63	70	26.00	146	39.00	50	8	29	1	23	27		X	X	BOTT		
ALASKAN SHELF	64	71	6.00	151	34.00	50	8	29	13	15	19		X	X	BOTT		
	65	71	18.00	151	30.00	50	8	29	15	50	53		X	X	BOTT		
	66	71	25.00	151	28.00	50	8	29	17	158	183		X	X	BOTT		
	67	71	28.00	151	27.00	50	8	29	18	308	410		X	X	BOTT		
	68	71	36.00	151	25.00	50	8	29	20	831	914		X	X	BOTT		
	69	71	40.00	151	23.00	50	8	29	22	1190	1793		X	X	BOTT		
	70	71	51.00	151	20.00	50	8	30	3	2080	2380		X	X	BOTT		
	71	72	11.00	151	12.00	50	8	30	9	2300	3290		X	X	BOTT		
CANADA BASIN	72	72	20.00	151	18.00	50	8	30	12		3515		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 50-0007
YEAR:1950 VESSEL/AGENCY: SOVIET ICE STATION NP-2

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	76	18.00	167	27.00	50	04	23					X	X			
	2	76	26.00	168	36.00	50	04	28					X	X			
CHUKCHI AB PLAIN	3	76	23.00	169	22.00	50	05	11					X	X			
CHUKCHI AB PLAIN	4	76	46.00	170	20.00	50	05	22					X	X			
CHUKCHI PLATEAU	5	77	15.00	167	19.00	50	06	17					X	X			
	6	78	35.00	167	12.00	50	07	14					X	X			
	7	78	50.00	166	17.00	50	07	25					X	X			
	8	78	55.00	165	55.00	50	08	17					X	X			

	9	78	53.00	166	55.00	50	09	07				X	X	
CHUKCHI AB PL	0	77	4.00	169	4.00	50	06	13	8	260		X	X	BOTT
	0	77	13.00	170	40.00	50	06	05				X	X	BOTT
	0	78	54.00	166	59.00	50	09	07	12			X	X	BOTT
	1	76	18.00	167	27.00	50	04	23	9	593	600	X	X	BOTT
CHUKCHI AB PL	1	77	4.00	169	4.00	50	06	13	10	260		X	X	BOTT
	1	77	13.00	170	40.00	50	06	05	2			X	X	BOTT
	1	78	54.00	166	59.00	50	09	07	14			X	X	BOTT
	10	78	57.00	161	56.00	50	09	27				X	X	
CANADA BASIN	11	80	13.00	159	9.00	50	10	20				X	X	
CANADA BASIN	12	80	40.00	162	52.00	50	11	25				X	X	
CANADA BASIN	13	80	49.00	162	3.00	50	12	20				X	X	
CANADA BASIN	14	80	53.00	160	57.00	51	01	29				X	X	
CANADA BASIN	15	81	16.00	161	33.00	51	03	07				X	X	
CANADA BASIN	16	81	28.00	162	41.00	51	03	15				X	X	
	2	76	26.00	168	36.00	50	04	28	20	1650	1682	X	X	BOTT
CHUKCHI PLATEAU	2	77	8.00	168	33.00	50	06	13	12	260		X	X	BOTT
	2	77	13.00	170	40.00	50	06	05	4			X	X	BOTT
	2	78	54.00	166	59.00	50	09	07	16			X	X	BOTT
CHUKCHI AB PL	3	76	23.00	169	22.00	50	05	11	7		2187	X	X	BOTT
CHUKCHI PLATEAU	3	77	8.00	168	33.00	50	06	13	14	260		X	X	BOTT
	3	77	13.00	170	40.00	50	06	05	6			X	X	BOTT
	3	78	54.00	166	59.00	50	09	07	18			X	X	BOTT
CHUKCHI AB PL	4	76	43.00	170	20.00	50	05	22	6			X	X	BOTT
CHUKCHI PLATEAU	4	77	8.00	168	33.00	50	06	13	16	260		X	X	BOTT
	4	77	13.00	170	40.00	50	06	05	8			X	X	BOTT
	4	78	54.00	166	59.00	50	09	07	20			X	X	BOTT
CHUKCHI PLATEAU	5	77	8.00	168	33.00	50	06	13	18	260		X	X	BOTT
	5	77	13.00	170	40.00	50	06	05	10			X	X	BOTT
CHUKCHI PLATEAU	5	77	15.00	167	19.00	50	06	17	6	583	587	X	X	BOTT
	5	78	54.00	166	59.00	50	09	07	22			X	X	BOTT
CHUKCHI PLATEAU	6	77	8.00	168	33.00	50	06	13	20	260		X	X	BOTT
	6	77	13.00	170	40.00	50	06	05	12			X	X	BOTT
	6	78	35.00	167	12.00	50	07	14	20		625	X	X	BOTT
	6	78	54.00	166	59.00	50	09	08				X	X	BOTT
CHUKCHI PLATEAU	7	77	8.00	168	33.00	50	06	13	22	260		X	X	BOTT
	7	77	13.00	170	40.00	50	06	05	14			X	X	BOTT
	7	78	50.00	169	17.00	50	07	24	24	2670	2677	X	X	BOTT
	7	78	54.00	166	59.00	50	09	08	2			X	X	BOTT
CHUKCHI PLATEAU	8	77	9.00	168	28.00	50	06	13	23			X	X	BOTT
	8	77	13.00	170	40.00	50	06	05	16			X	X	BOTT
	8	78	54.00	166	59.00	50	09	08	4			X	X	BOTT
	8	78	55.00	165	55.00	50	08	16	24	1485	1829	X	X	BOTT
	9	77	13.00	170	40.00	50	06	05	18			X	X	BOTT
	9	78	53.00	166	55.00	50	09	06	24	1795		X	X	BOTT
	9	78	54.00	166	59.00	50	09	08	6			X	X	BOTT
CANADA BASIN	9	79	19.00	167	58.00	50	08	30	23		3113	X	X	BOTT
	10	78	57.00	161	56.00	50	09	27	19	1092		X	X	BOTT
CANADA BASIN	11	80	13.00	159	9.00	50	10	19	21	3233	3240	X	X	BOTT
CANADA BASIN	12	80	40.00	162	52.00	50	11	25	20	3015		X	X	BOTT
CANADA BASIN	13	80	49.00	162	3.00	50	12	20	19	3266	3272	X	X	BOTT
CANADA BASIN	13A	80	46.00	162	58.00	50	12	30				X	X	
CANADA BASIN	14	80	46.00	162	58.00	50	12	30	20		3233	X	X	BOTT
CANADA BASIN	15	80	53.00	160	57.00	51	01	29	19	3526	3527	X	X	BOTT
CANADA BASIN	16	81	16.00	161	33.00	51	03	06	21	3582		X	X	BOTT
CANADA BASIN	17	81	28.00	162	41.00	51	04	01	22	3816	3826	X	X	BOTT
CANADA BASIN	18	79	5.00	166	56.00	50	08	29	6			X	X	BOTT
CHUKCHI AB PL	19	77	7.00	170	2.00	50	05	29	6		2234	X	X	BOTT
CHUKCHI AB PL	20	77	7.00	170	2.00	50	05	29	8			X	X	BOTT
CHUKCHI AB PL	21	77	7.00	170	2.00	50	05	29	10			X	X	BOTT
CHUKCHI AB PL	22	77	7.00	170	2.00	50	05	29	12			X	X	BOTT
CHUKCHI AB PL	23	77	7.00	170	2.00	50	05	29	14			X	X	BOTT
CHUKCHI AB PL	24	77	7.00	170	2.00	50	05	29	16			X	X	BOTT
CHUKCHI AB PL	25	77	7.00	170	2.00	50	05	29	18			X	X	BOTT
CHUKCHI AB PL	26	77	7.00	170	2.00	50	05	29	20			X	X	BOTT
CHUKCHI AB PL	27	77	7.00	170	2.00	50	05	29	22			X	X	BOTT
CHUKCHI AB PL	28	77	7.00	170	2.00	50	05	30				X	X	BOTT
CHUKCHI AB PL	29	77	7.00	170	2.00	50	05	30	2			X	X	BOTT
CHUKCHI AB PL	30	77	7.00	170	2.00	50	05	30	4			X	X	BOTT
CHUKCHI AB PL	31	77	7.00	170	2.00	50	05	30	6			X	X	BOTT
CHUKCHI AB PL	32	77	7.00	170	2.00	50	05	30	8			X	X	BOTT
CHUKCHI AB PL	33	77	7.00	170	2.00	50	05	30	10			X	X	BOTT
CHUKCHI AB PL	34	77	7.00	170	2.00	50	05	30	12			X	X	BOTT
CHUKCHI AB PL	35	77	7.00	170	2.00	50	05	30	14			X	X	BOTT
CHUKCHI AB PL	36	77	7.00	170	2.00	50	05	30	16			X	X	BOTT
CHUKCHI AB PL	37	77	7.00	170	2.00	50	05	30	18			X	X	BOTT
CHUKCHI AB PL	38	77	7.00	170	2.00	50	05	30	20			X	X	BOTT
	39	77	12.00	170	25.00	50	05	30	22			X	X	BOTT
	396	78	59.00	164	0.00	50	9	15	11	300Q		X	X	BOTT
	40	77	12.00	170	25.00	50	05	31				X	X	BOTT
	41	77	12.00	170	25.00	50	05	31	2			X	X	BOTT
	42	77	12.00	170	25.00	50	05	31	4			X	X	BOTT
	43	77	12.00	170	25.00	50	05	31	6			X	X	BOTT

44	77	12.00	170	25.00	50	05	31	8		X	X	BOTT
45	77	12.00	170	25.00	50	05	31	10		X	X	BOTT
46	77	12.00	170	25.00	50	05	31	12		X	X	BOTT
47	77	12.00	170	25.00	50	05	31	14		X	X	BOTT
48	77	12.00	170	25.00	50	05	31	16		X	X	BOTT
49	77	12.00	170	25.00	50	05	31	18		X	X	BOTT
50	77	12.00	170	25.00	50	05	31	20		X	X	BOTT
51	77	12.00	170	25.00	50	05	31	22		X	X	BOTT
52	77	12.00	170	25.00	50	06	01			X	X	BOTT
53	77	12.00	170	25.00	50	06	01	2		X	X	BOTT
54	77	15.00	170	42.00	50	06	01	4		X	X	BOTT
55	77	15.00	170	42.00	50	06	01	6		X	X	BOTT
56	77	15.00	170	42.00	50	06	01	8		X	X	BOTT
57	77	15.00	170	42.00	50	06	01	10		X	X	BOTT
58	77	15.00	170	42.00	50	06	01	12		X	X	BOTT
59	77	15.00	170	42.00	50	06	01	14		X	X	BOTT
60	77	15.00	170	42.00	50	06	01	16		X	X	BOTT
61	77	15.00	170	42.00	50	06	01	18		X	X	BOTT
62	77	12.00	170	38.00	50	06	01	20		X	X	BOTT
63	77	12.00	170	38.00	50	06	01	22		X	X	BOTT
64	77	12.00	170	38.00	50	06	02			X	X	BOTT
65	77	12.00	170	38.00	50	06	02	2		X	X	BOTT
66	77	12.00	170	38.00	50	06	02	4		X	X	BOTT
67	77	12.00	170	39.00	50	06	02	6		X	X	BOTT
68	77	12.00	170	39.00	50	06	02	8		X	X	BOTT
69	77	12.00	170	39.00	50	06	02	10		X	X	BOTT
70	77	12.00	170	39.00	50	06	02	12		X	X	BOTT
71	77	12.00	170	39.00	50	06	02	14		X	X	BOTT
72	77	12.00	170	39.00	50	06	02	16		X	X	BOTT
73	77	12.00	170	39.00	50	06	02	18		X	X	BOTT
74	77	12.00	170	37.00	50	06	02	20		X	X	BOTT
75	77	12.00	170	37.00	50	06	02	22		X	X	BOTT
76	77	12.00	170	37.00	50	06	03			X	X	BOTT
77	77	12.00	170	37.00	50	06	03	2		X	X	BOTT
78	77	12.00	170	37.00	50	06	03	4		X	X	BOTT
79	77	12.00	170	37.00	50	06	03	6		X	X	BOTT
80	77	12.00	170	37.00	50	06	03	8		X	X	BOTT
81	77	12.00	170	37.00	50	06	03	10		X	X	BOTT
82	77	12.00	170	37.00	50	06	03	12	260	X	X	BOTT
83	77	12.00	170	37.00	50	06	03	14	260	X	X	BOTT
84	77	12.00	170	37.00	50	06	03	16	260	X	X	BOTT
85	77	12.00	170	37.00	50	06	03	18	260	X	X	BOTT
86	77	12.00	170	37.00	50	06	03	20	260	X	X	BOTT
87	77	12.00	170	37.00	50	06	03	22	260	X	X	BOTT
88	77	12.00	170	37.00	50	06	04		260	X	X	BOTT
89	77	14.00	170	39.00	50	06	04	2	260	X	X	BOTT
90	77	14.00	170	39.00	50	06	04	4	260	X	X	BOTT
91	77	14.00	170	39.00	50	06	04	6	260	X	X	BOTT
92	77	13.00	170	40.00	50	06	04	8	260	X	X	BOTT
93	77	13.00	170	40.00	50	06	04	10	260	X	X	BOTT
94	77	13.00	170	40.00	50	06	04	12	260	X	X	BOTT
95	77	13.00	170	40.00	50	06	04	14		X	X	BOTT
96	77	13.00	170	40.00	50	06	04	16		X	X	BOTT
97	77	13.00	170	40.00	50	06	04	18		X	X	BOTT
98	77	13.00	170	40.00	50	06	04	20		X	X	BOTT
99	77	13.00	170	40.00	50	06	04	22		X	X	BOTT
110	77	13.00	170	40.00	50	06	05	20		X	X	BOTT
111	77	13.00	170	40.00	50	06	05	22		X	X	BOTT
112	77	13.00	170	40.00	50	06	06			X	X	BOTT
113	77	13.00	170	40.00	50	06	06	2		X	X	BOTT
114	77	13.00	170	40.00	50	06	06	4		X	X	BOTT
115	77	13.00	170	40.00	50	06	06	6		X	X	BOTT
116	77	13.00	170	40.00	50	06	06	8		X	X	BOTT
117	77	13.00	170	40.00	50	06	06	10		X	X	BOTT
118	77	13.00	170	40.00	50	06	06	12		X	X	BOTT
119	77	13.00	170	40.00	50	06	06	14		X	X	BOTT
120	77	13.00	170	40.00	50	06	06	16		X	X	BOTT
121	77	13.00	170	40.00	50	06	06	18		X	X	BOTT
122	77	13.00	170	40.00	50	06	06	20		X	X	BOTT
123	77	13.00	170	40.00	50	06	06	22		X	X	BOTT
124	77	13.00	170	40.00	50	06	07			X	X	BOTT
125	77	13.00	170	40.00	50	06	07	2		X	X	BOTT
126	77	13.00	170	40.00	50	06	07	4		X	X	BOTT
127	77	13.00	170	40.00	50	06	07	6		X	X	BOTT
128	77	13.00	170	40.00	50	06	07	8		X	X	BOTT
129	77	13.00	170	40.00	50	06	07	10		X	X	BOTT
130	77	13.00	170	40.00	50	06	07	12		X	X	BOTT
131	77	13.00	170	40.00	50	06	07	14		X	X	BOTT
132	77	13.00	170	40.00	50	06	07	16		X	X	BOTT
133	77	13.00	170	40.00	50	06	07	18		X	X	BOTT
134	77	13.00	170	40.00	50	06	07	20		X	X	BOTT
135	77	13.00	170	40.00	50	06	07	22		X	X	BOTT
136	77	13.00	170	40.00	50	06	08			X	X	BOTT

	137	77	13.00	170	40.00	50	06	08	2		X	X	BOTT
	138	77	13.00	170	40.00	50	06	08	4		X	X	BOTT
	139	77	13.00	170	40.00	50	06	08	6		X	X	BOTT
	140	77	13.00	170	40.00	50	06	08	8		X	X	BOTT
	141	77	13.00	170	40.00	50	06	08	10		X	X	BOTT
	142	77	13.00	170	40.00	50	06	08	12		X	X	BOTT
	143	77	13.00	170	40.00	50	06	08	14		X	X	BOTT
	144	77	13.00	170	40.00	50	06	08	16		X	X	BOTT
	145	77	13.00	170	40.00	50	06	08	18		X	X	BOTT
	146	77	13.00	170	40.00	50	06	08	20		X	X	BOTT
	147	77	13.00	170	40.00	50	06	08	22		X	X	BOTT
	148	77	13.00	170	40.00	50	06	09			X	X	BOTT
CHUKCHI AB PL	149	76	57.00	169	13.00	50	06	09	2		X	X	BOTT
CHUKCHI AB PL	150	76	57.00	169	13.00	50	06	09	4		X	X	BOTT
CHUKCHI AB PL	151	76	57.00	169	13.00	50	06	09	6		X	X	BOTT
CHUKCHI AB PL	152	76	57.00	169	13.00	50	06	09	8		X	X	BOTT
CHUKCHI AB PL	153	76	57.00	169	13.00	50	06	09	10		X	X	BOTT
CHUKCHI AB PL	154	76	57.00	169	13.00	50	06	09	12		X	X	BOTT
CHUKCHI AB PL	155	76	57.00	169	13.00	50	06	09	14		X	X	BOTT
CHUKCHI AB PL	156	76	57.00	169	13.00	50	06	09	16		X	X	BOTT
CHUKCHI AB PL	157	76	57.00	169	13.00	50	06	09	18		X	X	BOTT
CHUKCHI AB PL	158	76	57.00	169	13.00	50	06	09	20		X	X	BOTT
CHUKCHI AB PL	159	76	57.00	169	13.00	50	06	09	22		X	X	BOTT
CHUKCHI AB PL	160	76	57.00	169	13.00	50	06	10			X	X	BOTT
CHUKCHI AB PL	161	76	57.00	169	13.00	50	06	10	2		X	X	BOTT
CHUKCHI AB PL	162	76	57.00	169	13.00	50	06	10	4		X	X	BOTT
CHUKCHI AB PL	163	76	57.00	169	13.00	50	06	10	6		X	X	BOTT
CHUKCHI AB PL	164	76	57.00	169	13.00	50	06	10	8		X	X	BOTT
CHUKCHI AB PL	165	76	57.00	169	13.00	50	06	10	10		X	X	BOTT
CHUKCHI AB PL	166	76	57.00	169	13.00	50	06	10	12		X	X	BOTT
CHUKCHI AB PL	167	76	57.00	169	13.00	50	06	10	14		X	X	BOTT
CHUKCHI AB PL	168	76	57.00	169	13.00	50	06	10	16		X	X	BOTT
CHUKCHI AB PL	169	76	57.00	169	13.00	50	06	10	18		X	X	BOTT
CHUKCHI AB PL	170	76	57.00	169	13.00	50	06	10	20		X	X	BOTT
CHUKCHI AB PL	171	76	57.00	169	13.00	50	06	10	22		X	X	BOTT
CHUKCHI AB PL	172	76	57.00	169	13.00	50	06	11			X	X	BOTT
CHUKCHI AB PL	173	76	57.00	169	13.00	50	06	11	2		X	X	BOTT
CHUKCHI AB PL	174	76	57.00	169	13.00	50	06	11	4		X	X	BOTT
CHUKCHI AB PL	175	76	57.00	169	13.00	50	06	11	6		X	X	BOTT
CHUKCHI AB PL	176	76	57.00	169	13.00	50	06	11	8		X	X	BOTT
CHUKCHI AB PL	177	76	57.00	169	13.00	50	06	11	10		X	X	BOTT
CHUKCHI AB PL	178	76	57.00	169	13.00	50	06	11	12		X	X	BOTT
CHUKCHI AB PL	179	76	57.00	169	13.00	50	06	11	14		X	X	BOTT
CHUKCHI AB PL	180	76	57.00	169	13.00	50	06	11	16		X	X	BOTT
CHUKCHI AB PL	181	76	57.00	169	13.00	50	06	11	18		X	X	BOTT
CHUKCHI AB PL	182	76	57.00	169	13.00	50	06	11	20		X	X	BOTT
CHUKCHI AB PL	183	76	57.00	169	13.00	50	06	11	22		X	X	BOTT
CHUKCHI AB PL	184	76	57.00	169	13.00	50	06	12			X	X	BOTT
CHUKCHI AB PL	185	76	57.00	169	13.00	50	06	12	2		X	X	BOTT
CHUKCHI AB PL	186	76	57.00	169	13.00	50	06	12	4		X	X	BOTT
CHUKCHI AB PL	187	76	57.00	169	13.00	50	06	12	6		X	X	BOTT
CHUKCHI AB PL	188	77	4.00	169	4.00	50	06	12	8		X	X	BOTT
CHUKCHI AB PL	189	77	4.00	169	4.00	50	06	12	10		X	X	BOTT
CHUKCHI AB PL	190	77	4.00	169	4.00	50	06	12	12		X	X	BOTT
CHUKCHI AB PL	191	77	4.00	169	4.00	50	06	12	14		X	X	BOTT
CHUKCHI AB PL	192	77	4.00	169	4.00	50	06	12	16		X	X	BOTT
CHUKCHI AB PL	193	77	4.00	169	4.00	50	06	12	18		X	X	BOTT
CHUKCHI AB PL	194	77	4.00	169	4.00	50	06	12	20		X	X	BOTT
CHUKCHI AB PL	195	77	4.00	169	4.00	50	06	12	22	260	X	X	BOTT
CHUKCHI AB PL	196	77	4.00	169	4.00	50	06	13		260	X	X	BOTT
CHUKCHI AB PL	197	77	4.00	169	4.00	50	06	13	2	260	X	X	BOTT
CHUKCHI AB PL	198	77	4.00	169	4.00	50	06	13	4	260	X	X	BOTT
CHUKCHI AB PL	199	77	4.00	169	4.00	50	06	13	6	260	X	X	BOTT
CANADA BASIN	210	79	19.00	167	58.00	50	08	31			X	X	BOTT
CANADA BASIN	211	79	19.00	167	58.00	50	08	31	2	270	X	X	BOTT
CANADA BASIN	212	79	19.00	167	58.00	50	08	31	4	270	X	X	BOTT
CANADA BASIN	213	79	19.00	167	58.00	50	08	31	6	270	X	X	BOTT
CANADA BASIN	214	79	19.00	167	58.00	50	08	31	8	270	X	X	BOTT
CANADA BASIN	215	79	19.00	167	58.00	50	08	31	10	270	X	X	BOTT
CANADA BASIN	216	79	19.00	167	58.00	50	08	31	12	270	X	X	BOTT
CANADA BASIN	217	79	19.00	167	58.00	50	08	31	14	270	X	X	BOTT
CANADA BASIN	218	79	19.00	167	58.00	50	08	31	16	270	X	X	BOTT
CANADA BASIN	219	79	19.00	167	58.00	50	08	31	18	270	X	X	BOTT
CANADA BASIN	220	79	19.00	167	58.00	50	08	31	20	270	X	X	BOTT
CANADA BASIN	221	79	19.00	167	58.00	50	08	31	22	270	X	X	BOTT
CANADA BASIN	222	79	19.00	167	58.00	50	09	01		270	X	X	BOTT
CANADA BASIN	223	79	19.00	167	58.00	50	09	01	2	270	X	X	BOTT
CANADA BASIN	224	79	19.00	167	58.00	50	09	01	4	270	X	X	BOTT
CANADA BASIN	225	79	19.00	167	58.00	50	09	01	6		X	X	BOTT
CANADA BASIN	226	79	19.00	167	58.00	50	09	01	8		X	X	BOTT
CANADA BASIN	227	79	19.00	167	58.00	50	09	01	10		X	X	BOTT
CANADA BASIN	228	79	19.00	167	58.00	50	09	01	12		X	X	BOTT
CANADA BASIN	229	79	19.00	167	58.00	50	09	01	14		X	X	BOTT

CANADA BASIN	230	79	19.00	167	58.00	50	09	01	16		X	X	BOTT
CANADA BASIN	231	79	19.00	167	58.00	50	09	01	18		X	X	BOTT
CANADA BASIN	232	79	19.00	167	58.00	50	09	01	20		X	X	BOTT
CANADA BASIN	233	79	19.00	167	58.00	50	09	01	22		X	X	BOTT
CANADA BASIN	234	79	19.00	167	58.00	50	09	02			X	X	BOTT
CANADA BASIN	235	79	19.00	167	58.00	50	09	02	2		X	X	BOTT
CANADA BASIN	236	79	19.00	167	58.00	50	09	02	4		X	X	BOTT
CANADA BASIN	237	79	19.00	167	58.00	50	09	02	6		X	X	BOTT
CANADA BASIN	238	79	19.00	167	58.00	50	09	02	8		X	X	BOTT
CANADA BASIN	239	79	19.00	167	58.00	50	09	02	10		X	X	BOTT
CANADA BASIN	240	79	19.00	167	58.00	50	09	02	12		X	X	BOTT
CANADA BASIN	241	79	19.00	167	58.00	50	09	02	14		X	X	BOTT
CANADA BASIN	242	79	19.00	167	58.00	50	09	02	16		X	X	BOTT
CANADA BASIN	243	79	19.00	167	58.00	50	09	02	18		X	X	BOTT
CANADA BASIN	244	79	19.00	167	58.00	50	09	02	20		X	X	BOTT
CANADA BASIN	245	79	19.00	167	58.00	50	09	02	22		X	X	BOTT
CANADA BASIN	246	79	19.00	167	58.00	50	09	03			X	X	BOTT
CANADA BASIN	247	79	19.00	167	58.00	50	09	03	2		X	X	BOTT
CANADA BASIN	248	79	19.00	167	58.00	50	09	03	4		X	X	BOTT
CANADA BASIN	249	79	19.00	167	58.00	50	09	03	6		X	X	BOTT
CANADA BASIN	250	79	19.00	167	58.00	50	09	03	8		X	X	BOTT
CANADA BASIN	251	79	19.00	167	58.00	50	09	03	10		X	X	BOTT
CANADA BASIN	252	79	19.00	167	58.00	50	09	03	12		X	X	BOTT
CANADA BASIN	253	79	19.00	167	58.00	50	09	03	14		X	X	BOTT
CANADA BASIN	254	79	19.00	167	58.00	50	09	03	16		X	X	BOTT
CANADA BASIN	255	79	19.00	167	58.00	50	09	03	18		X	X	BOTT
CANADA BASIN	256	79	19.00	167	58.00	50	09	03	20		X	X	BOTT
CANADA BASIN	257	79	19.00	167	58.00	50	09	03	22		X	X	BOTT
CANADA BASIN	258	79	19.00	167	58.00	50	09	04			X	X	BOTT
CANADA BASIN	259	79	19.00	167	58.00	50	09	04	2		X	X	BOTT
CANADA BASIN	260	79	19.00	167	58.00	50	09	04	4		X	X	BOTT
CANADA BASIN	261	79	19.00	167	58.00	50	09	04	6		X	X	BOTT
CANADA BASIN	262	79	19.00	167	58.00	50	09	04	8		X	X	BOTT
CANADA BASIN	263	79	19.00	167	58.00	50	09	04	10		X	X	BOTT
CANADA BASIN	264	79	19.00	167	58.00	50	09	04	12		X	X	BOTT
CANADA BASIN	265	79	19.00	167	58.00	50	09	04	14		X	X	BOTT
CANADA BASIN	266	79	19.00	167	58.00	50	09	04	16		X	X	BOTT
CANADA BASIN	267	79	19.00	167	58.00	50	09	04	18		X	X	BOTT
CANADA BASIN	268	79	19.00	167	58.00	50	09	04	20		X	X	BOTT
CANADA BASIN	269	79	19.00	167	58.00	50	09	04	22		X	X	BOTT
CANADA BASIN	270	79	19.00	167	58.00	50	09	05			X	X	BOTT
CANADA BASIN	271	79	19.00	167	58.00	50	09	05	2		X	X	BOTT
CANADA BASIN	272	79	19.00	167	58.00	50	09	05	4		X	X	BOTT
CANADA BASIN	273	79	19.00	167	58.00	50	09	05	6		X	X	BOTT
CANADA BASIN	274	79	19.00	167	58.00	50	09	05	8		X	X	BOTT
CANADA BASIN	275	79	19.00	167	58.00	50	09	05	10		X	X	BOTT
CANADA BASIN	276	79	19.00	167	58.00	50	09	05	12		X	X	BOTT
CANADA BASIN	277	79	19.00	167	58.00	50	09	05	14		X	X	BOTT
CANADA BASIN	278	79	19.00	167	58.00	50	09	05	16		X	X	BOTT
CANADA BASIN	279	79	19.00	167	58.00	50	09	05	18		X	X	BOTT
	280	78	57.00	167	18.00	50	09	05	20		X	X	BOTT
	281	78	57.00	167	18.00	50	09	05	22		X	X	BOTT
	282	78	57.00	167	18.00	50	09	06			X	X	BOTT
	283	78	57.00	167	18.00	50	09	06	2		X	X	BOTT
	284	78	57.00	167	18.00	50	09	06	4		X	X	BOTT
	285	78	57.00	167	18.00	50	09	06	6		X	X	BOTT
	286	78	57.00	167	18.00	50	09	06	8		X	X	BOTT
	287	78	57.00	167	18.00	50	09	06	10		X	X	BOTT
	288	78	57.00	167	18.00	50	09	06	12		X	X	BOTT
	289	78	57.00	167	18.00	50	09	06	14		X	X	BOTT
	290	78	57.00	167	18.00	50	09	06	16		X	X	BOTT
	291	78	57.00	167	18.00	50	09	06	18		X	X	BOTT
	292	78	57.00	167	18.00	50	09	06	20		X	X	BOTT
	293	78	57.00	167	18.00	50	09	06	22		X	X	BOTT
	294	78	57.00	167	18.00	50	09	07			X	X	BOTT
	295	78	54.00	166	59.00	50	09	07	2		X	X	BOTT
	296	78	54.00	166	59.00	50	09	07	4		X	X	BOTT
	297	78	54.00	166	59.00	50	09	07	6		X	X	BOTT
	298	78	54.00	166	59.00	50	09	07	8		X	X	BOTT
	299	78	54.00	166	59.00	50	09	07	10		X	X	BOTT
	310	78	54.00	166	59.00	50	09	08	8		X	X	BOTT
	311	78	54.00	166	59.00	50	09	08	10		X	X	BOTT
	312	78	54.00	166	59.00	50	09	08	12		X	X	BOTT
	313	78	54.00	166	59.00	50	09	08	14		X	X	BOTT
	314	78	54.00	166	59.00	50	09	08	16		X	X	BOTT
	315	78	54.00	166	59.00	50	09	08	18		X	X	BOTT
	316	78	52.00	166	6.00	50	09	08	20		X	X	BOTT
	317	78	52.00	166	6.00	50	09	08	22	270	X	X	BOTT
	318	78	52.00	166	6.00	50	09	09		270	X	X	BOTT
	319	78	52.00	166	6.00	50	09	09	2	270	X	X	BOTT
	320	78	52.00	166	6.00	50	09	09	4	270	X	X	BOTT
	321	78	52.00	166	6.00	50	09	09	6	270	X	X	BOTT
	322	78	52.00	166	6.00	50	09	09	8	270	X	X	BOTT

	323	78	52.00	166	6.00	50	09	09	10	270	X	X	BOTT
	324	78	52.00	166	6.00	50	09	09	12	270	X	X	BOTT
	325	78	52.00	166	6.00	50	09	09	14	270	X	X	BOTT
	326	78	52.00	166	6.00	50	09	09	16	270	X	X	BOTT
	327	78	52.00	166	6.00	50	09	09	18	270	X	X	BOTT
	328	78	52.00	166	6.00	50	09	09	20	270	X	X	BOTT
	329	78	52.00	166	6.00	50	09	09	22	270	X	X	BOTT
	330	78	52.00	166	6.00	50	09	10			X	X	BOTT
	331	78	52.00	166	6.00	50	09	10	2		X	X	BOTT
	332	78	52.00	166	6.00	50	09	10	4		X	X	BOTT
	333	78	52.00	166	6.00	50	09	10	6		X	X	BOTT
	334	78	52.00	166	6.00	50	09	10	8		X	X	BOTT
	335	78	52.00	166	6.00	50	09	10	10		X	X	BOTT
	336	78	52.00	166	6.00	50	09	10	12		X	X	BOTT
	337	78	52.00	166	6.00	50	09	10	14		X	X	BOTT
	338	78	52.00	166	6.00	50	09	10	16		X	X	BOTT
	339	78	52.00	166	6.00	50	09	10	18		X	X	BOTT
	340	78	52.00	166	6.00	50	09	10	20		X	X	BOTT
	341	78	52.00	166	6.00	50	09	10	22		X	X	BOTT
	342	78	52.00	166	6.00	50	09	11			X	X	BOTT
	343	78	52.00	166	6.00	50	09	11	2		X	X	BOTT
	344	78	52.00	166	6.00	50	09	11	4		X	X	BOTT
	345	78	52.00	166	6.00	50	09	11	6		X	X	BOTT
	346	78	52.00	166	6.00	50	09	11	8		X	X	BOTT
	347	78	52.00	166	6.00	50	09	11	10		X	X	BOTT
	348	78	52.00	166	6.00	50	09	11	12		X	X	BOTT
	349	78	52.00	166	6.00	50	09	11	14		X	X	BOTT
	350	78	52.00	166	6.00	50	09	11	16		X	X	BOTT
	351	78	52.00	166	6.00	50	09	11	18		X	X	BOTT
	352	78	52.00	166	6.00	50	09	11	20		X	X	BOTT
	353	78	52.00	166	6.00	50	09	11	22		X	X	BOTT
	354	78	52.00	166	6.00	50	09	12			X	X	BOTT
	355	78	52.00	166	6.00	50	09	12	2		X	X	BOTT
	356	78	52.00	166	6.00	50	09	12	4		X	X	BOTT
	357	78	52.00	166	6.00	50	09	12	6		X	X	BOTT
	358	78	52.00	166	6.00	50	09	12	8		X	X	BOTT
	359	78	52.00	166	6.00	50	09	12	10		X	X	BOTT
	360	78	52.00	166	6.00	50	09	12	12		X	X	BOTT
	361	78	52.00	166	6.00	50	09	12	14		X	X	BOTT
	362	78	52.00	166	6.00	50	09	12	16		X	X	BOTT
CHUKCHI PLATEAU	363	78	5.00	165	56.00	50	09	12	18		X	X	BOTT
CHUKCHI PLATEAU	364	78	5.00	165	56.00	50	09	12	20		X	X	BOTT
CHUKCHI PLATEAU	365	78	5.00	165	56.00	50	09	12	22		X	X	BOTT
CHUKCHI PLATEAU	366	78	5.00	165	56.00	50	09	13			X	X	BOTT
CHUKCHI PLATEAU	367	78	5.00	165	56.00	50	09	13	2		X	X	BOTT
CHUKCHI PLATEAU	368	78	5.00	165	56.00	50	09	13	4		X	X	BOTT
CHUKCHI PLATEAU	369	78	5.00	165	56.00	50	09	13	6		X	X	BOTT
CHUKCHI PLATEAU	370	78	5.00	165	56.00	50	09	13	8		X	X	BOTT
CHUKCHI PLATEAU	371	78	5.00	165	56.00	50	09	13	10		X	X	BOTT
CHUKCHI PLATEAU	372	78	5.00	165	56.00	50	09	13	12		X	X	BOTT
CHUKCHI PLATEAU	373	78	5.00	165	56.00	50	09	13	14		X	X	BOTT
CHUKCHI PLATEAU	374	78	5.00	165	56.00	50	09	13	16		X	X	BOTT
CHUKCHI PLATEAU	375	78	5.00	165	56.00	50	09	13	18		X	X	BOTT
CHUKCHI PLATEAU	376	78	5.00	165	56.00	50	09	13	20		X	X	BOTT
CHUKCHI PLATEAU	377	78	5.00	165	56.00	50	09	13	22		X	X	BOTT
CHUKCHI PLATEAU	378	78	5.00	165	56.00	50	09	14			X	X	BOTT
CHUKCHI PLATEAU	379	78	5.00	165	56.00	50	09	14	2		X	X	BOTT
CHUKCHI PLATEAU	380	78	5.00	165	56.00	50	09	14	4	270	X	X	BOTT
CHUKCHI PLATEAU	381	78	5.00	165	56.00	50	09	14	6	270	X	X	BOTT
CHUKCHI PLATEAU	382	78	5.00	165	56.00	50	09	14	8	270	X	X	BOTT
CHUKCHI PLATEAU	383	78	5.00	165	56.00	50	09	14	10	270	X	X	BOTT
CHUKCHI PLATEAU	384	78	5.00	165	56.00	50	09	14	12	50	X	X	BOTT
CHUKCHI PLATEAU	385	78	5.00	165	56.00	50	09	14	14	270	X	X	BOTT
CHUKCHI PLATEAU	386	78	5.00	165	56.00	50	09	14	16	270	X	X	BOTT
CHUKCHI PLATEAU	387	78	5.00	165	56.00	50	09	14	18	270	X	X	BOTT
CHUKCHI PLATEAU	388	78	5.00	165	56.00	50	09	14	20	270	X	X	BOTT
CHUKCHI PLATEAU	389	78	5.00	165	56.00	50	09	14	22	270	X	X	BOTT
CHUKCHI PLATEAU	390	78	5.00	165	56.00	50	09	15		270	X	X	BOTT
CHUKCHI PLATEAU	391	78	5.00	165	56.00	50	09	15	2	270	X	X	BOTT
CHUKCHI PLATEAU	392	78	5.00	165	56.00	50	09	15	4	270	X	X	BOTT
CHUKCHI PLATEAU	393	78	5.00	165	56.00	50	09	15	6	5	X	X	BOTT
CHUKCHI PLATEAU	394	78	5.00	165	56.00	50	09	15	8		X	X	BOTT
CHUKCHI PLATEAU	395	78	5.00	165	56.00	50	09	15	10		X	X	BOTT
	396	78	59.00	164	0.00	50	09	15	11		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 50-G[illegible]
YEAR:1950 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MAKAROV BASIN	11	88	12.00	154	43.00	50	04	23					X	X			
MAKAROV BASIN	16	86	1.00	163	46.00	50	04	24					X	X			
	17	86	24.00	81	59.00	50	04	21					X	X			
	18	87	20.00	101	22.00	50	04	21					X	X			
CANADA BASIN	21	84	11.00	113	47.00	50	04	27					X	X			
ALPHA RIDGE	22	85	20.00	132	0.00	50	04	28					X	X			
CANADA BASIN	23	82	45.00	121	51.00	50	04	25					X	X			
CANADA BASIN	24	82	44.00	133	40.00	50	04	23					X	X			
CANADA BASIN	25	81	4.00	134	33.00	50	04	22					X	X			
CANADA BASIN	26	79	31.00	128	56.00	50	04	21					X	X			
CANADA BASIN	27	77	48.00	135	4.00	50	04	20					X	X			
CANADA BASIN	28	75	20.00	139	46.00	50	04	17					X	X			
CANADA BASIN	29	77	15.00	143	39.00	50	04	16					X	X			
CANADA BASIN	30	78	33.00	146	25.00	50	04	13					X	X			
CANADA BASIN	31	76	13.00	149	21.00	50	04	12					X	X			
	32	77	5.00	160	44.00	50	04	08					X	X			
	33	74	55.00	160	18.00	50	04	06					X	X			
	34	73	46.00	163	27.00	50	04	03					X	X			
	36	76	3.00	166	30.00	50	03	31					X	X			
CHUKCHI AB PL	37	77	9.00	173	19.00	50	04	01					X	X			
CANADA BASIN	38	81	10.00	154	55.00	50	04	20					X	X			
CANADA BASIN	39	82	44.00	149	32.00	50	04	22					X	X			
CANADA BASIN	40	82	22.00	163	34.00	50	04	17					X	X			
CANADA BASIN	41	84	8.00	170	21.00	50	04	23					X	X			
CANADA BASIN	42	82	15.00	167	44.00	50	04	24					X	X			
MENDELEYEV RIDGE	44	79	42.00	180	0.00	50	04	11					X	X			

BOTTLE/CTD DATA SET NUMBER: 51-0001
YEAR:1951 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	71	21.00	156	41.00	51	08	08	16	17	20		X	X	BOTT		
CANADA BASIN	2	73	10.00	153	48.00	51	08	09			3840		X	X	BOTT		
	3	73	6.00	157	2.00	51	08	10	15		2754		X	X	BOTT		
ALASKAN SHELF	4	71	21.00	156	44.00	51	08	11	10	17	18		X	X	BOTT		
ALASKAN SHELF	5	71	29.00	156	53.00	51	08	13	18	125	150		X	X	BOTT		
ALASKAN SHELF	6	71	43.00	156	57.00	51	08	13	22	65	647		X	X	BOTT		
ALASKAN SHELF	7	71	39.00	155	37.00	51	08	14	1	120	140		X	X	BOTT		
ALASKAN SHELF	8	71	35.00	155	14.00	51	08	14	5	50	54		X	X	BOTT		
	9	71	46.00	155	39.00	51	08	14	7	120	126		X	X	BOTT		
ALASKAN SHELF	10	71	56.00	156	30.00	51	08	14	10	58	64		X	X	BOTT		
	11	72	5.00	156	14.00	51	08	14	12	98	151		X	X	BOTT		
	12	72	3.00	155	21.00	51	08	14	18	940	2121		X	X	BOTT		
	13	72	14.00	154	58.00	51	08	14	24	399	1353		X	X	BOTT		
	14	71	57.00	154	36.00	51	08	15	4	244	278		X	X	BOTT		
	15	72	1.00	155	12.00	51	08	15	8	240	279		X	X	BOTT		
	16	72	4.00	155	39.00	51	08	15		175	218		X	X	BOTT		
ALASKAN SHELF	17	71	20.00	156	45.00	51	08	18	9	17	12		X	X	BOTT		
ALASKAN SHELF	18	70	22.00	143	46.00	51	08	23	17	43	41		X	X	BOTT		
	19	70	32.00	143	38.00	51	08	23	19	51	55		X	X	BOTT		
	20	70	35.00	143	43.00	51	08	23	21		190		X	X	BOTT		
	21	70	44.00	143	44.00	51	08	23	24	450	457		X	X	BOTT		
	22	70	55.00	143	46.00	51	08	24	5	690	768		X	X	BOTT		
	23	71	3.00	143	42.00	51	08	24	8		1829		X	X	BOTT		
CANADA BASIN	24	71	21.00	143	43.00	51	08	24	13	2850	2852		X	X	BOTT		
CANADA BASIN	25	71	47.00	143	45.00	51	08	24	21				X	X	BOTT		
CANADA BASIN	26	72	16.00	143	46.00	51	08	25	3	3137	3255		X	X	BOTT		
CANADA BASIN	27	73	5.00	144	5.00	51	08	25	16	3450	3511		X	X	BOTT		
CANADA BASIN	28	72	50.00	145	48.00	51	08	26	12		3585		X	X	BOTT		
CANADA BASIN	29	71	58.00	147	8.00	51	08	27	16	1895	3511		X	X	BOTT		
	30	71	6.00	147	56.00	51	08	27	13		592		X	X	BOTT		

ALASKAN SHELF	31	70	43.00	148	16.00	51	08	27	17	25	45	X	X	BOTT	
	32	70	53.00	149	38.00	51	08	27	21	25	26	X	X	BOTT	
ALASKAN SHELF	33	71	5.00	150	56.00	51	08	28	1	20	20	X	X	BOTT	
ALASKAN SHELF	34	71	12.00	150	53.00	51	08	28	2	48	49	X	X	BOTT	
	35	71	18.00	150	0.00	51	08	28	4	160	195	X	X	BOTT	
	36	71	23.00	150	40.00	51	08	28	6	820	768	X	X	BOTT	
	37	71	32.00	150	33.00	51	08	28	10		1829	X	X	BOTT	
	38	71	54.00	150	19.00	51	08	28	15	1920	2761	X	X	BOTT	
CANADA BASIN	39	72	30.00	149	48.00	51	08	28	21	1760	3731	X	X	BOTT	
CANADA BASIN	40	73	8.00	148	2.00	51	08	29	19	3645	3694	X	X	BOTT	
CANADA BASIN	41	72	46.00	148	25.00	51	08	30	4		3694	X	X	BOTT	
CANADA BASIN	42	72	46.00	148	25.00	51	08	30	6	175	3694	X	X	BOTT	
	43	74	2.00	169	0.00	51	09	03		164	179	X	X	BOTT	
	44	73	42.00	169	4.00	51	09	03	8	125	137	X	X	BOTT	
	45	74	17.00	168	57.00	51	09	03	12	149	175	X	X	BOTT	
	46	74	35.00	168	57.00	51	09	03	15	152	182	X	X	BOTT	
	47	75	0.00	168	52.00	51	09	03	18	193	192	X	X	BOTT	
	48	75	25.00	168	50.00	51	09	03	22		193	X	X	BOTT	
	49	75	58.00	168	42.00	51	09	04	3	440	457	X	X	BOTT	
	50	76	5.00	168	42.00	51	09	04	5	1242	1317	X	X	BOTT	
	51	76	36.00	168	45.00	51	09	04	12			X	X	BOTT	
	52	76	25.00	166	0.00	51	09	04	21	953		X	X	BOTT	
	53	76	21.00	163	17.00	51	09	05	3	1783	1865	X	X	BOTT	
	54	76	11.00	164	6.00	51	09	05	8	730	823	X	X	BOTT	
	55	75	52.00	164	14.00	51	09	05	14		814	X	X	BOTT	
	56	75	18.00	165	39.00	51	09	05	21	443	549	X	X	BOTT	
	57	75	29.00	163	8.00	51	09	06	4	1833		X	X	BOTT	
	58	76	7.00	160	11.00	51	09	06	17			X	X	BOTT	
	59	75	18.00	158	16.00	51	09	07	4	853	896	X	X	BOTT	
NORTHWIND RIDGE	60	75	20.00	156	10.00	51	09	07	12	1925	3292	X	X	BOTT	
	61	74	44.00	159	44.00	51	09	07	24	1130	1756	X	X	BOTT	
	62	74	35.00	165	32.00	51	09	08	11	320		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 51-0011
YEAR:1951 VESSEL/AGENCY: SKIJUMP1

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	72	52.00	156	32.00	51	4	1		200			X	X	BOTT		
CANADA BASIN	2	75	45.00	150	0.00	51	4	21		2092	3200		X	X	BOTT		
ALASKAN SHELF	3	72	36.00	158	32.00	51	5	3		150	171		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 52-0002
YEAR:1952 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	32	70	10.00	143	45.00	52	09	11	7	10			X	X	BOTT		
	33	72	14.00	155	0.00	52	09	14	11	1880			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 52-0009
YEAR:1952 VESSEL/AGENCY: SKIJUMP2

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	4	76	25.00	144	19.00	52	3	11		3000			X	X	BOTT		

CANADA BASIN	5	76	26.00	134	0.00	52	3	12		2100		X	X	BOTT	
	6	76	20.00	128	20.00	52	3	13		600		X	X	BOTT	
CANADA BASIN	7	79	36.00	147	10.00	52	3	25		2300	2950	X	X	BOTT	
CANADA BASIN	8	82	22.00	145	20.00	52	3	26		2100		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 52-0010
YEAR:1952 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
	1	86	43.00	086	30.00	52	11	29		2452	2700*			X	BOTT	
	2	86	48.00	085	0.00	52	12	02		591	2800			X	BOTT	
	3	86	51.00	081	40.00	52	12	08		389	2800			X	BOTT	
ALPHA RIDGE	4	86	6.00	095	20.00	52	12	30		2164	2300			X	BOTT	
ALPHA RIDGE	5	85	55.00	090	0.00	53	04	05		1056	2100		X	X	BOTT	
ALPHA RIDGE	6	85	19.00	093	30.00	53	05	16		1083	1600		X	X	BOTT	
ALPHA RIDGE	7	85	38.00	094	20.00	53	07	06		1827			X	X	BOTT	
	8	86	10.00	082	45.00	53	08	31		2480	2600			X	BOTT	
	9	84	39.00	080	10.00	54	04	26		1366	1500		X	X	BOTT	
	10	83	12.00	090	40.00	55	05	26		1666	1700		X	X	BOTT	
	11	82	48.00	093	15.00	55	08	01		466	500		X	X	BOTT	
ALPHA RIDGE	12	86	6.00	095	20.00	53	01	04	16					X	BOTT	
ALPHA RIDGE	13	86	6.00	095	20.00	53	01	04	16					X	BOTT	
ALPHA RIDGE	14	86	6.00	095	20.00	53	01	04	17					X	BOTT	
ALPHA RIDGE	15	86	6.00	095	20.00	53	01	04	17					X	BOTT	
ALPHA RIDGE	16	86	6.00	095	20.00	53	01	04	18					X	BOTT	
ALPHA RIDGE	17	86	6.00	095	20.00	53	01	04	18					X	BOTT	
ALPHA RIDGE	18	86	6.00	095	20.00	53	01	04	18					X	BOTT	
ALPHA RIDGE	19	86	6.00	095	20.00	53	01	04	19					X	BOTT	
ALPHA RIDGE	20	86	6.00	095	20.00	53	01	04	19					X	BOTT	
ALPHA RIDGE	21	86	6.00	095	20.00	53	01	04	19					X	BOTT	
ALPHA RIDGE	22	86	6.00	095	20.00	53	01	04	20					X	BOTT	

* Water depths are approximate.

BOTTLE/CTD DATA SET NUMBER: 54-0001
YEAR:1954 VESSEL/AGENCY: LABRADOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	95	70	9.00	141	35.00	54	9	14	18	15	44		X	X	BOTT	
NORTHWIND RIDGE	96	74	36.00	158	25.00	54	9	18	9	1475	1829		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 54-0002
YEAR:1954 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	1	71	25.00	156	44.00	54	08	04	20	25	28			X	BOTT	
*ALASKAN SHELF	22	71	18.00	156	42.00	54	5	12	21	24			X	X	BOTT	
*ALASKAN SHELF	53	71	18.00	157	12.00	54	5	24	5	24			X	X	BOTT	
*ALASKAN SHELF	54	71	30.00	156	6.00	54	5	24	9	24			X	X	BOTT	
ALASKAN SHELF	70	69	56.00	141	25.00	54	09	14	18	28	29		X	X	BOTT	

* May not have been the BURTON ISLAND.

BOTTLE/CTD DATA SET NUMBER: 54-0013
YEAR:1954 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
LOMONOSOV RIDGE	1	88	32.00	50	24.00	54	04	18					X	X			
	2	87	20.00	81	0.00	54	04	19					X	X			
	3	88	0.00	78	0.00	54	04	19					X	X			
	4	87	52.00	46	10.00	54	04	20					X	X			
LOMONOSOV RIDGE	5	89	13.00	102	22.00	54	05	04					X	X			
LOMONOSOV RIDGE	6	89	3.00	118	39.00	54	05	04					X	X			
	7	88	44.00	102	2.00	54	05	04					X	X			
LOMONOSOV RIDGE	8	86	14.00	50	0.00	54	05	05					X	X			
	9	87	25.00	15	50.00	54	05	06					X	X			
LOMONOSOV RIDGE	10	86	30.00	62	13.00	54	05	06					X	X			
	11	87	22.00	213	49.00	54	05	18					X	X			
	12	87	36.00	312	40.00	54	04	13					X	X			
	13	88	48.00	91	14.00	54	04	15					X	X			
	14	86	21.00	32	53.00	54	05	05					X	X			
LOMONOSOV RIDGE	15	85	50.00	63	55.00	54	05	05					X	X			
	16	87	20.00	47	48.00	54	05	07					X	X			
MAKAROV BASIN	17	88	47.00	178	36.00	54	05	14					X	X			
	18	88	53.00	219	7.00	54	05	14					X	X			
	19	88	59.00	204	10.00	54	05	15					X	X			

BOTTLE/CTD DATA SET NUMBER: 54-0014
YEAR:1954 VESSEL/AGENCY: NP-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MAKAROV BASIN	1	87	6.00	177	16.00	54	05	12					X	X			
MAKAROV BASIN	2	87	2.00	170	44.00	54	05	31		4000			X	X			
MAKAROV BASIN	3	87	7.00	161	5.00	54	06	21					X	X			
MAKAROV BASIN	5	87	36.00	160	26.00	54	07	01					X	X			
MAKAROV BASIN	6	87	48.00	152	46.00	54	07	11					X	X			
MAKAROV BASIN	7	88	6.00	152	12.00	54	07	20					X	X			
MAKAROV BASIN	8	88	45.00	153	54.00	54	08	02					X	X			
MAKAROV BASIN		88	44.00	154	4.00	54	08	02		3900			X	X	BOTT		
LOMONOSOV RDGE	11	89	14.00	138	9.00	54	08	21					X	X			
	12	89	32.00	103	52.00	54	08	29		4000			X	X			
	2	89	33.00	104	12.00	54	08	29		4120			X	X	BOTT		
LOMONOSOV RDGE	13	89	30.00	110	44.00	54	09	10					X	X			
	14	89	37.00	70	58.00	54	09	16					X	X			
LOMONOSOV RDGE	15	88	42.00	82	27.00	54	10	15					X	X			
LOMONOSOV RDGE	16	88	36.00	74	38.00	54	11	04					X	X			
LOMONOSOV RDGE	17	88	14.00	59	26.00	54	12	04					X	X			
	18	87	11.00	30	34.00	55	01	16					X	X			
	19	86	30.00	27	33.00	55	01	25		4000			X	X			
	22	86	8.00	34	55.00	55	03	15		3500			X	X			
	23	86	3.00	36	44.00	55	03	29		3500			X	X			

BOTTLE/CTD DATA SET NUMBER: 54-0015
YEAR:1954 VESSEL/AGENCY: SOVIET ICE STATION NP-4

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	112	77	35.00	184	25.00	54	04	14					X	X			
	113	77	7.00	187	55.00	54	04	15					X	X			

	111	76	31.00	185	40.00	54	04	17		X	X
	114	76	46.00	191	35.00	54	04	19		X	X
	103	74	0.00	166	30.00	54	04	20		X	X
	102	73	17.00	158	0.00	54	04	22		X	X
	1	76	20.00	181	53.00	54	05	15		X	X
	2	76	31.00	183	42.00	54	06	05		X	X
	3	76	47.00	186	43.00	54	06	19		X	X
	4	77	30.00	186	30.00	54	07	06		X	X
	E-2	78	14.00	187	28.00	54	07	16		X	X
	5	77	25.00	184	11.00	54	08	05		X	X
	6	77	48.00	186	17.00	54	08	07		X	X
	7	78	26.00	185	2.00	54	08	16		X	X
MENDELEYEV RDG	E-3	78	54.00	179	33.00	54	08	19		X	X
	8	79	20.00	182	27.00	54	08	26		X	X
	9	79	42.00	183	26.00	54	09	12		X	X
	10	79	33.00	185	20.00	54	10	13		X	X
	12	80	58.00	181	52.00	54	11	16		X	X
	11	80	18.00	182	38.00	54	11	20		X	X
MENDELEYEV RDG	14	80	30.00	179	7.00	54	12	05		X	X
MENDELEYEV RDG	15	80	8.00	177	11.00	55	01	08		X	X
CANADA BASIN	16	80	37.00	173	26.00	55	02	09		X	X
MENDELEYEV RDG	1	80	54.00	176	48.00	55	04	26		X	X
MENDELEYEV RDG	2	81	12.00	178	32.00	55	04	28		X	X
MENDELEYEV RDG	3	81	45.00	178	42.00	55	06	25		X	X
MENDELEYEV RDG	4	81	51.00	177	38.00	55	07	10		X	X
CANADA BASIN	5	82	4.00	174	0.00	55	07	23		X	X
CANADA BASIN	6	82	14.00	172	51.00	55	07	29		X	X
CANADA BASIN	7	82	28.00	172	11.00	55	08	11		X	X
CANADA BASIN	8	82	35.00	172	25.00	55	08	21		X	X
CANADA BASIN	9	82	39.00	172	4.00	55	08	31		X	X
CANADA BASIN	10	83	7.00	173	3.00	55	09	10		X	X
MENDELEYEV RDG	11	83	34.00	176	12.00	55	09	22		X	X
MENDELEYEV RDG	12	84	6.00	179	29.00	55	10	02		X	X
MENDELEYEV RDG	13	85	31.00	178	20.00	55	10	23		X	X
MAKAROV BASIN	15	86	41.00	178	33.00	55	11	28		X	X
MENDELEYEV RDG	14	85	57.00	177	58.00	55	11	30		X	X
	16	87	8.00	183	5.00	56	01	23		X	X
MAKAROV BASIN	17	86	48.00	177	28.00	56	01	24		X	X
MAKAROV BASIN	18	87	32.00	173	2.00	56	03	28		X	X
MAKAROV BASIN	1	87	28.00	177	12.00	56	04	27		X	X
MAKAROV BASIN	2	88	0.00	171	9.00	56	05	27		X	X
LOMONOSOV RDGE	3	88	55.00	162	4.00	56	06	22		X	X

BOTTLE/CTD DATA SET NUMBER: 55-0001
YEAR:1955 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	71	29.00	155	0.00	55	7	13	15	20	26		X	X	BOTT		
ALASKAN SHELF	2	71	34.00	155	33.00	55	7	14	4	155	170		X	X	BOTT		
ALASKAN SHELF	3	71	21.00	156	45.00	55	7	14	16	30	64		X	X	BOTT		
ALASKAN SHELF	4	71	27.00	157	11.00	55	7	17	6	99	125		X	X	BOTT		
ALASKAN SHELF	5	71	19.00	157	50.00	55	7	17	12	30	47		X	X	BOTT		
ALASKAN SHELF	6	70	58.00	159	17.00	55	7	17	16	40	47		X	X	BOTT		
ALASKAN SHELF	11	70	50.00	159	42.00	55	7	20	16	20	28		X	X	BOTT		
ALASKAN SHELF	12	70	54.00	159	25.00	55	7	21	6	23			X	X	BOTT		
ALASKAN SHELF	13	70	57.00	158	39.00	55	7	23	4	10	16		X	X	BOTT		
ALASKAN SHELF	18	70	30.00	148	6.00	55	8	14	5	12	13		X	X	BOTT		
ALASKAN SHELF	19	70	27.00	147	42.00	55	8	21	7	10	31		X	X	BOTT		
ALASKAN SHELF	20	70	27.00	147	42.00	55	8	22	18	5	10		X	X	BOTT		
ALASKAN SHELF	21	70	19.00	146	43.00	55	8	23	11	10	12		X	X	BOTT		
ALASKAN SHELF	22	70	12.00	145	53.00	55	8	23	18	7	13		X	X	BOTT		
CAMDEN BAY	23	70	5.00	145	2.00	55	8	23	23	5	15		X	X	BOTT		
ALASKAN SHELF	24	69	53.00	141	2.00	55	8	25	23	20	40		X	X	BOTT		
ALASKAN SHELF	25	70	10.00	143	10.00	55	8	26	17	13	14		X	X	BOTT		
CAMDEN BAY	28	70	6.00	145	5.00	55	8	28	5	10	15		X	X	BOTT		
ALASKAN SHELF	29	70	10.00	143	42.00	55	9	1	4	12	13		X	X	BOTT		
STEFANSSON SOUND	30	70	22.00	147	15.00	55	9	2	5	5	13		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 55-0016
YEAR:1955 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
STEFANSSON SOUND	17	70 20.00	147 3.00	55 8 6 3	10	13		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 55-0017
YEAR:1955 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
	3	87 20.00	77 28.00	55 04 24				X	X		
MAKARCV BASIN	36	88 42.00	177 54.00	55 05 01				X	X		
	42	85 21.00	46 31.00	55 04 25				X	X		
	43	85 5.00	71 16.00	55 04 26				X	X		
LOMONOSOV RIDGE	44	86 53.00	62 47.00	55 04 25				X	X		
	45	85 52.00	82 23.00	55 04 25				X	X		
	46	84 45.00	86 35.00	55 04 29				X	X		
	47	86 41.00	101 40.00	55 05 05				X	X		

BOTTLE/CTD DATA SET NUMBER: 55-0019
YEAR:1955 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	1	70 36.00	149 56.00	55 08 29	10	11		X	X	BOTT	
ALASKAN SHELF	2	70 54.00	152 10.00	55 08 30 17	10	11		X	X	BOTT	
ALASKAN SHELF	3	71 3.00	153 16.00	55 08 31 24	14	15		X	X	BOTT	
ALASKAN SHELF	4	71 25.00	156 21.00	55 09 04 20	5	10		X	X	BOTT	
ALASKAN SHELF	5	71 27.00	156 32.00	55 09 05 17	70	73		X	X	BOTT	
ALASKAN SHELF	6	71 29.00	155 45.00	55 09 12 8	25	27		X	X	BOTT	
ALASKAN SHELF	7	71 22.00	156 44.00	55 09 13 5	44	46		X	X	BOTT	
ALASKAN SHELF	8	71 29.00	156 35.00	55 09 15 1	120	124		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 56-0001
YEAR:1956 VESSEL/AGENCY: REQUISITE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	5	70 49.00	159 53.00	56 07 21 10	28	31		X	X	BOTT	
CANADA BASIN	6	71 22.00	146 43.00	56 07 23 8	30	37		X	X	BOTT	
ALASKAN SHELF	7	71 29.00	155 55.00	56 07 24 6	10	14		X	X	BOTT	
STEFANSSON SOUND	8	70 16.00	147 10.00	56 07 26 22	2	8		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 56-0012
YEAR:1956 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	26	74	16.00	174	4.00	56	04	08					X	X			
	31	74	21.00	165	40.00	56	04	09					X	X			
	32	71	51.00	167	35.00	56	04	07					X	X			
	34	75	18.00	170	43.00	56	04	11					X	X			
	35	76	16.00	162	2.00	56	04	13					X	X			
CANADA BASIN	38	75	16.00	155	50.00	56	04	09					X	X			
CANADA BASIN	43	73	3.00	148	48.00	56	04	13					X	X			
CANADA BASIN	52	74	12.00	134	56.00	56	04	14					X	X			
ALPHA RIDGE	59	85	27.00	132	13.00	56	05	07					X	X			
	63	84	34.00	148	39.00	56	05	08					X	X			
CANADA BASIN	67	76	49.00	135	28.00	56	04	20					X	X			
CANADA BASIN	70	77	0.00	139	38.00	56	04	15					X	X			
CANADA BASIN	71	78	19.00	138	20.00	56	04	15					X	X			
CANADA BASIN	74	78	11.00	128	39.00	56	04	20					X	X			
CANADA BASIN	75	78	45.00	133	51.00	56	04	21					X	X			
CANADA BASIN	76	80	25.00	133	30.00	56	05	01					X	X			
CANADA BASIN	79	81	13.00	124	52.00	56	05	02					X	X			
ALPHA RIDGE	89	84	59.00	95	35.00	56	05	02					X	X			
CANADA BASIN	92	83	48.00	118	31.00	56	05	02					X	X			
CANADA BASIN	95	84	10.00	136	0.00	56	05	06					X	X			
CANADA BASIN	97	82	2.00	149	50.00	56	05	07					X	X			
CANADA BASIN	100	81	35.00	145	12.00	56	04	16					X	X			
CANADA BASIN	102	77	54.00	149	32.00	56	04	15					X	X			
	103	77	23.00	156	0.00	56	04	10					X	X			
CHUKCHI PLATEAU	107	77	50.00	164	29.00	56	04	12					X	X			
MENDELEYEV RIDGE	122	84	16.00	178	6.00	56	05	09					X	X			
CHUKCHI PLATEAU	107A	77	37.00	165	35.00	56	04	11					X	X			

BOTTLE/CTD DATA SET NUMBER: 56-0014
YEAR:1956 VESSEL/AGENCY: ATKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
STEFANSSON SD.	1	70	21.00	147	8.00	56	08	10	20	10	11		X	X	BOTT		
ALASKAN SHELF	2	70	36.00	148	22.00	56	08	11	6	20	23		X	X	BOTT		
ALASKAN SHELF	3	71	23.00	155	51.00	56	08	12	22	10	14		X	X	BOTT		
ALASKAN SHELF	4	71	22.00	156	39.00	56	08	15	3	20	23		X	X	BOTT		
ALASKAN SHELF	5	71	21.00	156	42.00	56	08	22	2	30	37		X	X	BOTT		
ALASKAN SHELF	6	71	21.00	156	44.00	56	08	23	20	15	31		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0002
YEAR:1957 VESSEL/AGENCY: ATKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	70	23.00	144	46.00	57	8	1	1	30	37		X	X	BOTT		
ALASKAN SHELF	2	69	51.00	141	9.00	57	8	1	14	30	35		X	X	BOTT		
ALASKAN SHELF	8	70	30.00	143	30.00	57	8	5	1	35	55		X	X	BOTT		
	9	71	2.00	143	27.00	57	8	5	5	2000	2195		X	X	BOTT		
	10	71	18.00	143	32.00	57	8	5	10	150	2560		X	X	BOTT		
ALASKAN SHELF	11	70	35.00	148	28.00	57	8	7	14	20	20		X	X	BOTT		
ALASKAN SHELF	12	70	52.00	151	29.00	57	8	7	22	20			X	X	BOTT		
ALASKAN SHELF	13	71	10.00	154	0.00	57	8	8	2	20	20		X	X	BOTT		

ALASKAN SHELF	14	71	40.00	155	45.00	57	8	8	11	143	161	X	X	BOTT	
ALASKAN SHELF	15	71	23.00	156	35.00	57	8	8	19	15	24	X	X	BOTT	
ALASKAN SHELF	16	70	51.00	159	51.00	57	8	9	5	30	46	X	X	BOTT	
BEAUFORT SEA	26	69	46.00	141	0.00	57	8	19	2	30	31	X	X	BOTT	
ALASKAN SHELF	27	70	25.00	143	30.00	57	8	19	9	50	57	X	X	BOTT	
	28	70	57.00	143	22.00	57	8	19	12	150	1400	X	X	BOTT	
CANADA BASIN	29	71	20.00	143	39.00	57	8	19	17	150	2926	X	X	BOTT	
	30	72	5.00	154	54.00	57	8	20	21	150	914	X	X	BOTT	
CANADA BASIN	31	72	24.00	154	40.00	57	8	21		150	1646	X	X	BOTT	
ALASKAN SHELF	32	71	40.00	155	17.00	57	8	21	6	150	192	X	X	BOTT	
ALASKAN SHELF	33	71	11.00	154	0.00	57	8	21	9	20	20	X	X	BOTT	
ALASKAN SHELF	34	70	53.00	151	31.00	57	8	21	14	15	17	X	X	BOTT	
ALASKAN SHELF	35	70	36.00	148	30.00	57	8	21	19	20	20	X	X	BOTT	
ALASKAN SHELF	36	70	11.00	145	33.00	57	8	22		30	33	X	X	BOTT	
ALASKAN SHELF	37	71	20.00	156	45.00	57	8	27	23	20	21	X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 57-0011
YEAR:1957 VESSEL/AGENCY: ICE STATION ALPHA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	3	85	20.00	172	40.00	57	10	02		1789	1821		X	X	BOTT		
	4	85	1.50	170	33.00	57	10	23		1417	1420		X	X	BOTT		
CANADA BASIN	5	84	17.00	167	24.00	57	11	14		2220	2346		X	X	BOTT		
CANADA BASIN	5A	83	47.50	165	46.00	57	11	26		2978	3018		X	X	BOTT		
CANADA BASIN	6	83	41.50	164	40.00	57	12	02		2754	2804		X	X	BOTT		
CANADA BASIN	7	83	48.60	165	5.00	57	12	14		2269	2312		X	X	BOTT		
CANADA BASIN	8	83	48.00	152	22.00	58	03	29		2650	2694		X	X	BOTT		
CANADA BASIN	9	83	47.80	151	31.00	58	04	03		2850	2876		X	X	BOTT		
CANADA BASIN	10	83	52.40	151	58.00	58	04	14		2747			X	X	BOTT		
CANADA BASIN	11	83	57.00	151	27.00	58	06	03		2660	2660		X	X	BOTT		
CANADA BASIN	12	83	12.00	149	27.00	58	06	10		1850	2645		X	X	BOTT		
	13	84	31.00	147	59.00	58	06	17		1650	1732		X	X	BOTT		
	14	84	32.00	146	12.00	58	07	08		2000	2310		X	X	BOTT		
	14	84	39.00	147	38.00	58	06	24		1825	1886		X	X	BOTT		
	15	84	41.00	147	35.00	58	07	01		1875	1902		X	X	BOTT		
	17	84	32.00	143	28.00	58	07	15		2000	2156			X	BOTT		
	18	84	41.00	140	26.00	58	07	22		2000	2158			X	BOTT		
ALPHA RIDGE	19	85	2.00	138	0.00	58	07	29		1850	1850		X	X	BOTT		
ALPHA RIDGE	20	85	3.00	138	53.00	58	08	05		150	2073		X	X	BOTT		
ALPHA RIDGE	21	84	58.00	136	5.00	58	08	12		150	1966		X	X	BOTT		
ALPHA RIDGE	22	85	2.00	134	32.00	58	08	19		400	1898			X	BOTT		
ALPHA RIDGE	23	85	5.00	130	40.00	58	08	26		400	1703			X	BOTT		
ALPHA RIDGE	24	85	26.00	128	16.00	58	09	02		300	1761		X	X	BOTT		
ALPHA RIDGE	25	85	54.00	124	0.00	58	09	09		300	2200			X	BOTT		
ALPHA RIDGE	26	85	54.00	123	2.00	58	09	16		200				X	BOTT		
ALPHA RIDGE	27	85	48.00	120	29.00	58	09	24		200				X	BOTT		
ALPHA RIDGE	28	85	39.00	120	40.00	58	10	01		200				X	BOTT		
ALPHA RIDGE	29	85	52.00	120	21.00	58	10	08		200				X	BOTT		
ALPHA RIDGE	30	86	3.00	119	52.00	58	10	15		200				X	BOTT		
ALPHA RIDGE	31	86	23.00	116	37.00	58	10	24		80				X	BOTT		
ALPHA RIDGE	32	86	10.00	114	8.00	58	10	30		1100	1700			X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0012
YEAR:1957 VESSEL/AGENCY: USSR AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	21	82	25.00	164	0.00	57	05	23									

BOTTLE/CTD DATA SET NUMBER: 57-0013
YEAR:1957 VESSEL/AGENCY: SOVIET ICE STATION NP-7

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	83 18.	163 9.	57 06 16				X	X			
	2	84 46.	171 28.	57 07 25				X	X			
	6	85 45.	173 34.	57 11 26				X	X			
	7	85 46.	166 17.	57 12 25				X	X			
	8	85 41.	158 25.	58 01 28				X	X			
MAKAROV BASIN	9	86 2.	154 14.	58 02 21				X	X			
MAKAROV BASIN	10	86 9.	152 41.	58 03 14				X	X			
LOMONOSOV RIDGE		86 28.	149 16.	58 04 23				X	X			
LOMONOSOV RIDGE		86 22.	145 29.	58 05 22				X	X			
LOMONOSOV RIDGE		86 44.	137 58.	58 06 12				X	X			
LOMONOSOV RIDGE		87 01.	127 02.	58 07 19				X	X			
LOMONOSOV RIDGE		87 14.	107 03.	58 08 19				X	X			
LOMONOSOV RIDGE		87 42.	79 21.	58 09 10				X	X			
LOMONOSOV RIDGE		87 35.	68 00.	58 10 15				X	X			
LOMONOSOV RIDGE		86 55.	64 32.	58 11 15				X	X			
LOMONOSOV RIDGE		86 32.	63 24.	58 12 08				X	X			
LOMONOSOV RIDGE		86 18.	62 37.	59 01 14				X	X			
LOMONOSOV RIDGE		86 13.	62 35.	59 02 11				X	X			
LOMONOSOV RIDGE		85 47.	44 26.	59 03 06				X	X			

BOTTLE/CTD DATA SET NUMBER: 57-0014
YEAR:1957 VESSEL/AGENCY: ICE STATION BRAVO(T-3)

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	10	82 51.00	096 10.00	57 05 20	1327	1360		X	X	BOTT		
	11	82 4.00	102 5.00	57 07 19	688	716		X	X	BOTT		
	12	82 12.00	101 5.00	57 08 12	575	591			X	BOTT		
	13	82 3.00	104 15.00	57 09 20	1705	1750		X	X	BOTT		
	14	81 1.00	109 5.00	57 11 08	873	970		X	X	BOTT		
CANADA BASIN	15	80 17.00	112 50.00	58 04 09	786	880		X	X	BOTT		
CANADA BASIN	16	80 2.00	115 50.00	58 05 15	1263	1380		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 57-0015
YEAR:1957 VESSEL/AGENCY: ELDORADO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	5	71 21.00	156 46.00	57 08 05 23	20	22		X	X	BOTT		
ALASKAN SHELF	6	71 21.00	156 46.00	57 08 06 6	20	22		X	X	BOTT		
ALASKAN SHELF	7	71 21.00	156 42.00	57 08 06 19	20	22		X	X	BOTT		
ALASKAN SHELF	8	71 13.00	157 2.00	57 08 07 6	32	32		X	X	BOTT		
ALASKAN SHELF	9	71 21.00	156 42.00	57 08 07 22	20	22		X	X	BOTT		
ALASKAN SHELF	10	71 21.00	156 42.00	57 08 08 2	20	22		X	X	BOTT		
ALASKAN SHELF	11	71 21.00	156 42.00	57 08 08 6	20	22		X	X	BOTT		
ALASKAN SHELF	12	71 21.00	156 42.00	57 08 08 19	20	22		X	X	BOTT		
ALASKAN SHELF	13	71 14.00	157 1.00	57 08 09 6	32	34		X	X	BOTT		
ALASKAN SHELF	14	71 26.00	156 44.00	57 08 09 22	20			X	X	BOTT		
ALASKAN SHELF	15	71 26.00	156 44.00	57 08 10 5	20	23		X	X	BOTT		
ALASKAN SHELF	16	71 13.00	157 3.00	57 08 10 22	20	23		X	X	BOTT		
ALASKAN SHELF	17	71 26.00	156 44.00	57 08 11 5	20	23		X	X	BOTT		
ALASKAN SHELF	18	71 26.00	156 44.00	57 08 11 18	19	23		X	X	BOTT		
ALASKAN SHELF	19	71 26.00	156 44.00	57 08 12 5	20	22		X	X	BOTT		

ALASKAN SHELF	20	71	26.00	156	44.00	57	08	12	18	20	22		X	X	BOTT
ALASKAN SHELF	21	71	26.00	156	44.00	57	08	13	6	20	22		X	X	BOTT
ALASKAN SHELF	22	71	26.00	156	44.00	57	08	13	18	20	22		X	X	BOTT
ALASKAN SHELF	23	71	26.00	156	44.00	57	08	14	6	20	22		X	X	BOTT
ALASKAN SHELF	24	71	26.00	156	44.00	57	08	14	18	20	22		X	X	BOTT
ALASKAN SHELF	25	71	26.00	156	44.00	57	08	15	6	20	22		X	X	BOTT
ALASKAN SHELF	26	71	26.00	156	44.00	57	08	15	18	20	22		X	X	BOTT
ALASKAN SHELF	27	71	26.00	156	44.00	57	08	16	5	20	22		X	X	BOTT
ALASKAN SHELF	28	71	26.00	156	44.00	57	08	16	18	10	22		X	X	BOTT
ALASKAN SHELF	29	71	26.00	156	44.00	57	08	17	21	20	22		X	X	BOTT
ALASKAN SHELF	30	71	26.00	156	44.00	57	08	18	18	20	22		X	X	BOTT
ALASKAN SHELF	31	71	26.00	156	44.00	57	08	18	22		22		X	X	BOTT
ALASKAN SHELF	32	71	26.00	156	44.00	57	08	19	18	20	22		X	X	BOTT
ALASKAN SHELF	33	71	26.00	156	44.00	57	08	19	22	20	22		X	X	BOTT
ALASKAN SHELF	34	71	26.00	156	44.00	57	08	20	18	20	22		X	X	BOTT
ALASKAN SHELF	35	71	26.00	156	44.00	57	08	20	22	20	22		X	X	BOTT
ALASKAN SHELF	36	71	26.00	156	44.00	57	08	21	5	20	22		X	X	BOTT
ALASKAN SHELF	37	71	26.00	156	44.00	57	08	21	18	20	22		X	X	BOTT
ALASKAN SHELF	38	71	26.00	156	44.00	57	08	21	22	20	22		X	X	BOTT
ALASKAN SHELF	39	71	26.00	156	44.00	57	08	22	5	20	22		X	X	BOTT
ALASKAN SHELF	40	71	26.00	156	44.00	57	08	22	18		22		X	X	BOTT
ALASKAN SHELF	41	71	26.00	156	44.00	57	08	22	22		22		X	X	BOTT
ALASKAN SHELF	42	71	26.00	156	44.00	57	08	23	5		22		X	X	BOTT
ALASKAN SHELF	43	71	26.00	156	44.00	57	08	23	18		22		X	X	BOTT
ALASKAN SHELF	44	71	26.00	156	44.00	57	08	23	23		22		X	X	BOTT
ALASKAN SHELF	45	71	26.00	156	44.00	57	08	24	5		22		X	X	BOTT
ALASKAN SHELF	46	71	26.00	156	44.00	57	08	24	18		22		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 58-0001
YEAR:1958 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	71	34.00	143	3.00	58	09	01		150			X	X	BOTT		
	1	72	3.00	154	57.00	58	08	14	5	305	305		X	X	BOTT		
	2	71	0.00	143	3.00	58	09	01	4	148			X	X	BOTT		
	2	72	13.00	154	48.00	58	08	14	7	972	1280		X	X	BOTT		
ALASKAN SHELF	3	70	30.00	143	32.00	58	09	01	8	40	42		X	X	BOTT		
CANADA BASIN	3	72	22.00	154	38.00	58	08	14	10	1896	2000		X	X	BOTT		
CANADA BASIN	4	72	32.00	154	28.00	58	08	14	13	1758			X	X	BOTT		
CANADA BASIN	5	72	42.00	154	21.00	58	08	14	17	2010			X	X	BOTT		
CANADA BASIN	6	72	52.00	154	15.00	58	08	14	21	3100	3457		X	X	BOTT		
CANADA BASIN	7	73	0.00	154	14.00	58	08	15	2	3180	3749		X	X	BOTT		
CANADA BASIN	8	73	33.00	142	30.00	58	08	22	10	2990	3562		X	X	BOTT		
BEAUFORT SEA	9	69	55.00	140	58.00	58	09	04	6	40			X	X	BOTT		
ALASKAN SHELF	9	71	37.00	155	46.00	58	08	24	21	200	241		X	X	BOTT		
ALASKAN SHELF	10	70	30.00	145	0.00	58	09	04	15	40	35		X	X	BOTT		
	10	71	46.00	155	14.00	58	08	25	2	200	302		X	X	BOTT		
ALASKAN SHELF	11	70	46.00	148	30.00	58	09	04	23	25	24		X	X	BOTT		
ALASKAN SHELF	12	71	7.00	151	8.00	58	09	05	4	25			X	X	BOTT		
ALASKAN SHELF	13	71	20.00	154	0.00	58	09	05	14	25	26		X	X	BOTT		
CANADA BASIN	14	72	20.00	155	0.00	58	09	05	20	143			X	X	BOTT		
CANADA BASIN	15	73	0.00	155	15.00	58	09	05	24	142	3233		X	X	BOTT		
ALASKAN SHELF	16	71	31.00	156	47.00	58	09	06	16	69	143		X	X	BOTT		
	17	71	45.00	155	30.00	58	09	06	21	145			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0010
YEAR:1958 VESSEL/AGENCY: U.S. AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	81	71	53.00	154	20.00	58	03*										
	82	72	0.00	154	50.00	58	03										
	83	72	0.00	154	50.00	58	03										
	84	72	6.00	155	5.00	58	03										

	85	71	56.00	153	30.00	58	03*
	88	72	8.00	154	50.00	58	03
	89	72	16.00	154	15.00	58	03
	810	72	7.00	155	0.00	58	03
ALASKAN SHELF	811	71	40.00	156	15.00	58	03
ALASKAN SHELF	812	71	15.00	157	40.00	58	03
	813	72	10.00	154	50.00	58	03
	814	72	11.00	154	55.00	58	03
	815	71	49.00	15[illegible]	20.00	58	03
	816	71	55.00	155	10.00	58	03
	817	72	2.00	155	5.00	58	03
CANADA BASIN	818	72	28.00	150	0.00	58	03
	881	70	53.00	143	45.00	58	03
	8P1	71	38.00	150	10.00	58	03
ALASKAN SHELF	8P2	71	11.00	150	10.00	58	03

* Actual dates are sometime during Feb. - May.

BOTTLE/CTD DATA SET NUMBER: 58-0011
YEAR:1958 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	79	59.00	116	30.00	58	5	26	17	1142	1280		X		BOTT		
CANADA BASIN	2	79	56.00	115	35.00?	58	5	29	14	962	1160		X	X	BOTT		
CANADA BASIN	3	79	57.00	115	10.00	58	6	3	16	968	1100		X	X	BOTT		
CANADA BASIN	4	79	48.00	115	0.00	58	6	10	16	1164	1270		X	X	BOTT		
CANADA BASIN	5	79	43.00	115	30.00	58	6	17	15	1184	1215		X	X	BOTT		
CANADA BASIN	6	79	58.00	115	52.00	58	6	24	16	1061	1205		X	X	BOTT		
CANADA BASIN	7	79	54.00	116	9.00	58	7	1	15	1161	1205		X	X	BOTT		
CANADA BASIN	8	79	47.00	116	22.50	58	7	8	15	1449	1780		X	X	BOTT		
CANADA BASIN	9	79	17.00	116	34.00	58	7	15	14	1770	1869		X	X	BOTT		
CANADA BASIN	10	79	16.00	118	24.00	58	7	22	14	1776	1891		X	X	BOTT		
CANADA BASIN	11	79	8.00	119	22.00	58	7	29	14	1970	2016		X	X	BOTT		
CANADA BASIN	12	79	1.00	121	0.00	58	8	5	16	1990	2168		X	X	BOTT		
	13	78	54.00	122	21.00	58	8	12	14	1980	2147		X	X	BOTT		
	14	78	46.00	122	46.00	58	8	19	14	1990	2139		X	X	BOTT		
	15	78	46.00	122	46.00	58	8	22	15	238	2062		X	X	BOTT		
	16	78	53.00	123	56.00	58	8	26	14	1980	2282		X	X	BOTT		
	17	78	45.00	123	37.00	58	9	2	14	1960	2345		X	X	BOTT		
	18	78	35.00	122	51.00	58	9	9	14	1777			X	X	BOTT		
	19	78	28.00	122	30.00	58	9	16	15	900	972		X	X	BOTT		
	20	78	27.00	121	25.00	58	9	23	14	1002	1027		X	X	BOTT		
	21	78	28.00	122	30.00	58	9	27	17	635	682		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 58-0013
YEAR:1958 VESSEL/AGENCY: SUBMARINE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MAKAROV BASIN		86	44.00	77	55.00	58	08*			0.3							
MAKAROV BASIN		86	44.00	77	55.00	58	08			6.0							
AMUNDSEN BASIN		89	18.50	45	0.00	58	08			0.3							

* Summer sampling; exact dates unknown.

BOTTLE/CTD DATA SET NUMBER: 59-0001
YEAR:1959 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	11	71	9.00	144	0.00	59	11	19	21	2000	2378		X	X	BOTT		
	12	71	11.00	146	17.00	59	12	4	19	1068	2157		X	X	BOTT		
	13	71	5.00	145	5.00	59	12	21	19	1046	1426		X	X	BOTT		
	14	71	2.00	145	15.00	60	1	11	20	800	<900		X	X	BOTT		
	15	71	2.00	145	38.00	60	1	30	19	750	775		X	X	BOTT		
CANADA BASIN	16	71	35.00	149	59.00	60	2	10	18	950	1800		X	X	BOTT		
	17	72	2.00	152	49.00	60	2	22	18	1841	1890		X	X	BOTT		
	18	71	47.00	150	30.00	60	3	7	18	2000	2504		X	X	BOTT		
ALASKAN SHELF	19	71	50.00	159	38.00	60	5	13	21	45	50		X	X	BOTT		
ALASKAN SHELF	20	71	51.00	159	40.00	60	5	16	22	45	52		X	X	BOTT		
ALASKAN SHELF	28	71	49.50	159	45.00	60	7	20	23	47	48		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0002
YEAR:1959 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	74	57.00	163	53.00	59	07	31	9	635	640		X	X	BOTT		
	2	74	41.00	163	37.00	59	07	31	16	1250	1280		X	X	BOTT		
	3	74	45.00	162	17.00	59	08	01	1	1690	1847		X	X	BOTT		
	4	73	45.00	160	41.00	59	08	01	13	1500	1646		X	X	BOTT		
	5	73	18.00	157	55.00	59	08	02	2	2500	2560		X	X	BOTT		
	6	73	0.00	157	38.00	59	08	02	8	1800	1884		X	X	BOTT		
	7	72	41.00	157	20.00	59	08	02	14	297	311		X	X	BOTT		
	8	72	26.00	157	13.00	59	08	02	17	149	230		X	X	BOTT		
ALASKAN SHELF	9	72	0.00	156	51.00	59	08	02	21	93	101		X	X	BOTT		
ALASKAN SHELF	10	71	26.00	156	17.00	59	08	04	18	10	12		X	X	BOTT		
ALASKAN SHELF	11	71	38.00	156	25.00	59	08	04	20	135	143		X	X	BOTT		
ALASKAN SHELF	12	71	47.00	156	38.00	59	08	04	22	70	70		X	X	BOTT		
BEAUFORT SEA	29	69	56.00	140	52.00	59	09	03	14	35	41		X	X	BOTT		
	30	70	31.00	143	33.00	59	09	04	5	52	59		X	X	BOTT		
	31	70	37.00	144	45.00	59	09	04	7	65	70		X	X	BOTT		
	32	71	0.00	143	32.00	59	09	04	11	1700	1737		X	X	BOTT		
CANADA BASIN	33	71	30.00	143	34.00	59	09	04	17	3000	3017		X	X	BOTT		
CANADA BASIN	34	72	1.00	144	3.00	59	09	05		3028	3147		X	X	BOTT		
ALASKAN SHELF	35	70	47.00	148	34.00	59	09	05	12	35	37		X	X	BOTT		
ALASKAN SHELF	36	71	10.00	151	24.00	59	09	05	17	30	29		X	X	BOTT		
ALASKAN SHELF	37	71	22.00	154	5.00	59	09	05	22	38	44		X	X	BOTT		
ALASKAN SHELF	38	71	40.00	155	30.00	59	09	06	3	162	192		X	X	BOTT		
ALASKAN SHELF	39	72	21.00	155	32.00	59	09	06	9	1057	1372		X	X	BOTT		
ALASKAN SHELF	40	73	02.00	155	32.00	59	09	06	15	2850	3237		X	X	BOTT		
ALASKAN SHELF	41	71	30.00	156	46.00	59	09	07	14	150	157		X	X	BOTT		
ALASKAN SHELF	44	73	0.00	169	0.00	59	09	08	11	65	70		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 59-0014
YEAR:1959 VESSEL/AGENCY: US AIRCRAFT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	91	71	27.00	158	5.00	59	03*										
ALASKAN SHELF	93	71	22.00	159	50.00	59	03										
ALASKAN SHELF	94	71	21.00	157	50.00	59	03										
	96	72	9.00	153	55.00	59	03										
	96	72	10.00	156	35.00	59	03										
ALASKAN SHELF	97	71	47.00	156	30.00	59	03										
	99	72	34.00	156	20.00	59	03										
ALASKAN SHELF	910	71	58.00	158	35.00	59	03										
	912	72	41.00	156	25.00	59	03										
ALASKAN SHELF	914	71	25.00	159	15.00	59	03										
	915	73	30.00	156	35.00	59	03										
	916	71	59.00	153	45.00	59	03										
	917	71	3.00	143	40.00	59	03										
CANADA BASIN	918	73	29.00	143	50.00	59	03										
CANADA BASIN	919	72	32.00	143	45.00	59	03										
CANADA BASIN	920	71	46.00	143	40.00	59	03										
BEAUFORT SEA	922	72	4.00	137	35.00	59	03										

* Winter sampling; dates unknown.

BOTTLE/CTD DATA SET NUMBER: 59-0016
YEAR:1959 VESSEL/AGENCY: ICE STATION ALPHA-2

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	77	2.00	159	39.00	59	06	27	22	1832	2107		X	X			
	2	77	24.00	159	50.00	59	06	29	23	500	2107		X	X			
	3	77	10.00	159	50.00	59	07	01	23	1000	2000		X	X			
	4	77	24.00	160	10.00	59	07	06	20	200	1950		X	X			
	5	77	30.00	160	30.00	59	07	08	23	700	1463		X	X			
	6	77	40.00	161	0.00	59	07	10	23	1000			X	X			
	7	77	40.00	161	40.00	59	07	13	23	250			X	X			
CHUKCHI PLATEAU	8	77	40.00	162	10.00	59	07	15	20	300	576		X	X			
CHUKCHI PLATEAU	9	77	40.00	164	20.00	59	07	20	21	250	268		X	X			
CHUKCHI PLATEAU	10	77	40.00	164	0.00	59	07	22	20	250	268		X	X			
CHUKCHI PLATEAU	11	77	50.00	164	0.00	59	07	26	23	76	270		X	X			
CHUKCHI PLATEAU	12	77	40.00	162	30.00	59	07	29	20	76	280		X	X			
CHUXCHI PLATEAU	13	77	50.00	163	20.00	59	08	01	21	275	281		X	X			
CHUKCHI PLATEAU	14	77	20.00	164	30.00	59	08	03	21	300	314		X	X			
CHUKCHI PLATEAU	15	77	20.00	164	10.00	59	08	06	21	275	287		X	X			
CHUKCHI PLATEAU	16	77	10.00	163	0.00	59	08	10	20	260	273		X	X			
CHUKCHI PLATEAU	17	77	40.00	164	0.00	59	08	13	21	260	268		X	X			
CHUKCHI PLATEAU	18	77	50.00	165	40.00	59	08	17	21	425	450		X	X			
CHUKCHI PLATEAU	19	77	50.00	166	50.00	59	08	21	21	325	328		X	X			
CHUKCHI PLATEAU	20	77	50.00	168	20.00	59	08	24	21	475	495		X	X			
CHUKCHI PLATEAU	21	78	0.00	168	50.00	59	08	27	20	450	470		X	X			
	22	78	0.00	169	30.00	59	08	31	21	1500	1510		X	X			
	23	77	40.00	172	0.00	59	09	08	22	2100	2230		X	X			
	24	78	0.00	170	20.00	59	09	14	21	2150	2194		X	X			
	25	78	0.00	172	10.00	59	09	21	20	2200	2230		X	X			
MENDELEYEV RIDGE	27	78	2.00	174	50.00	59	10	11	01	850	1500		X	X			
	28A	77	57.00	170	49.00	59	10	28	00	300	2231		X	X			
	28B	77	54.00	170	48.00	59	10	29	01	1500	2231		X	X			
	29A	77	37.00	172	4.00	59	11	02	04	225	2240		X	X			
	29B	77	32.00	172	8.00	59	11	03	02	1500	2240		X	X			
	30A	77	52.00	172	37.00	59	11	22	21	300	2231		X	X			
	30B	77	52.00	172	37.00	59	11	23	02	1700	2231		X	X			
	31A	77	43.00	172	49.00	59	12	01	02	300	2264		X	X			
	31B	77	42.00	172	52.00	59	12	01	08	1800	2264		X	X			
	32A	77	21.00	172	21.00	59	12	04	23	100	2085		X	X			
	32B	77	21.00	172	21.00	59	12	05	02	700	2235		X	X			
	33A	77	11.00	171	58.00	59	12	06	03	130	2200		X	X			
	33B	77	20.00	171	55.00	59	12	07	07	1400	2200		X	X			
CHUKCHI AB PL	34A	77	2.00	171	36.00	59	12	08	23	1700	2250		X	X			

CHUKCHI AB PL	34B	76	59.00	171	26.00	59	12	09	03	250	2250		X	X
CHUKCHI AB PL	35A	76	59.00	169	49.00	59	12	16	01	150	2185		X	X
CHUKCHI AB PL	35B	77	1.00	169	30.00	59	12	16	21	1800	2185		X	X
CHUKCHI PLATEAU	36	77	10.00	168	22.00	59	12	21	09	500	549		X	X
CHUKCHI PLATEAU	37A	77	15.00	167	26.00	59	12	31	21	450	519		X	X
CHUKCHI PLATEAU	37B	77	14.00	167	23.00	60	01	01	02	150	519		X	X

BOTTLE/CTD DATA SET NUMBER: 60-0001
YEAR:1960 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	5	70	16.00	146	0.00	60	08	15	10	24	25		X	X	BOTT	
ALASKAN SHELF	6	70	30.00	146	0.00	60	08	15	12	35	37		X	X	BOTT	
ALASKAN SHELF	7	70	50.00	146	0.00	60	08	15	15	105	110		X	X	BOTT	
ALASKAN SHELF	8	70	45.00	145	8.00	60	08	15	19	200	219		X	X	BOTT	
	9	70	51.00	143	30.00	60	08	16	2	623	635		X	X	BOTT	
	10	71	4.00	142	19.00	60	08	16	8	1394			X	X	BOTT	
BEAUFORT SEA	11	70	46.00	140	14.00	60	08	16	20	1178			X	X	BOTT	
ALASKAN SHELF	21	70	30.00	143	32.00	60	08	22	2	50	46		X	X	BOTT	
ALASKAN SHELF	22	70	30.00	144	34.00	60	08	22	5	50			X	X	BOTT	
	23	70	51.00	148	24.00	60	08	22	14	30	31		X	X	BOTT	
	24	71	18.00	150	3.00	60	08	23		221	221		X	X	BOTT	
CANADA BASIN	31	75	12.00	137	24.00	60	09	11	8	3500	3512		X	X	BOTT	
BEAUFORT SEA	36	69	56.00	140	14.00	60	09	19	21	48	48		X	X	BOTT	
ALASKAN SHELF	37	71	8.00	151	15.00	60	09	20	20	25	26		X	X	BOTT	
ALASKAN SHELF	38	71	21.00	154	5.00	60	09	21	1	30	30		X	X	BOTT	
ALASKAN SHELF	44	71	23.00	157	54.00	60	09	29	6	25	26		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 60-0002
YEAR:1960 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	4	71	22.20	157	1.00	60	10	15	4	88	84		X	X	BOTT	
ALASKAN SHELF	5	71	31.80	156	17.00	60	10	16	23	141	155		X	X	BOTT	
ALASKAN SHELF	6	71	42.60	156	10.00	60	10	17	1	108	108		X	X	BOTT	
	7	72	1.00	155	52.00	60	10	17	4	92	91		X	X	BOTT	
	8	72	8.00	156	13.00	60	10	17	8	156	156		X	X	BOTT	
ALASKAN SHELF	9	71	37.20	154	55.00	60	10	17	23	44	45		X	X	BOTT	
ALASKAN SHELF	10	71	31.00	154	48.00	60	10	18	7	27	27		X	X	BOTT	
ALASKAN SHELF	11	70	41.00	148	16.00	60	10	19	9	29	29		X	X	BOTT	
CANADA BASIN	21	71	47.80	148	32.00	60	10	23	2	70	2926		X	X	BOTT	
	22	71	19.50	150	45.00	60	10	23	9	283	430		X	X	BOTT	
	23	71	28.00	150	45.00	60	10	23	16	64	69		X	X	BOTT	
ALASKAN SHELF	25	71	42.00	157	20.00	60	10	27		64	67		X	X	BOTT	
ALASKAN SHELF	26	71	42.00	157	53.00	60	10	27	5	60	59		X	X	BOTT	
ALASKAN SHELF	27	71	51.00	157	44.00	60	10	28	1	62	62		X	X	BOTT	
ALASKAN SHELF	28	72	2.00	159	33.00	60	10	28	6	40	40		X	X	BOTT	
ALASKAN SHELF	40	71	15.00	159	3.00	60	11	5	1	54	54		X	X	BOTT	
ALASKAN SHELF	41	71	2.00	159	16.00	60	11	8	2	68	69		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 60-0007
YEAR:1960 VESSEL/AGENCY: PCSP

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	MO
	2	79	25.00	105	56.00	60	4	23	19	140	143		X	X	BOTT		
	3	79	29.50	104	4.00	60	4	26	2	330	331		X	X	BOTT		
	4	79	35.50	102	53.00	60	4	28	9	380	387		X	X	BOTT		
	5	79	46.50	101	14.00	60	4	29	19	500	527		X	X	BOTT		
PR GUS AD SEA	8	79	9.50	106	35.00	60	5	4	5	450	458		X	X	BOTT		
PR GUS AD SEA	9	79	0.50	107	30.00	60	5	18		440	444		X	X	BOTT		
PR GUS AD SEA	10	78	50.50	108	44.00	60	5	19	6	490	492		X	X	BOTT		
PR GUS AD SEA	11	78	48.50	109	39.00	60	5	20	8	470	472		X	X	BOTT		
	12	78	18.50	114	25.00	60	5	23	3	340	344		X	X	BOTT		
	13	77	51.50	115	36.00	60	5	23	8	160	166		X	X	BOTT		
CANADA BASIN	14	80	42.00	112	50.00	60	5	30	9	1200	1239		X	X	BOTT		
	15	80	12.00	109	45.00	60	5	30	17	490	499		X	X	BOTT		
	16	79	37.50	106	54.00	60	5	30	22	330	340		X	X	BOTT		
	17	79	52.50	108	20.00	60	5	31	22	480	487		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 60-0013
YEAR:1960 VESSEL/AGENCY: STATEN IS.AND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	MO
CANADA BASIN	30	75	10.00	151	0.00	60	12	29	11	400	3658		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 60-0015
YEAR:1960 VESSEL/AGENCY: ARLIS I

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	MO
CANADA BASIN	1	74	40.00	141	7.00	60	09	26	2				X	X	BOTT		
CANADA BASIN	2	75	12.00	140	49.00	60	09	28	23				X	X	BOTT		
CANADA BASIN	3	75	12.00	140	44.00	60	09	29	3				X	X	BOTT		
CANADA BASIN	4	75	8.00	140	29.00	60	09	30					X	X	BOTT		
CANADA BASIN	5	75	7.00	140	30.00	60	09	30	5				X	X	BOTT		
CANADA BASIN	6	75	3.00	140	31.00	60	10	01					X	X	BOTT		
CANADA BASIN	7	74	58.00	142	12.00	60	10	03	21				X	X	BOTT		
CANADA BASIN	8	74	44.00	143	33.00	60	10	07	4				X	X	BOTT		
CANADA BASIN	9	74	28.00	143	30.00	60	10	08					X	X	BOTT		
CANADA BASIN	10	74	30.00	143	31.00	60	10	08	2				X	X	BOTT		
CANADA BASIN	11	74	36.00	143	18.00	60	10	09	13				X	X	BOTT		
CANADA BASIN	12	74	35.00	143	16.00	60	10	10	2				X	X	BOTT		
CANADA BASIN	13	74	33.00	143	19.00	60	10	10	23				X	X	BOTT		
CANADA BASIN	14	74	33.00	143	26.00	60	10	11	3				X	X	BOTT		
CANADA BASIN	15	74	29.00	144	31.00	60	10	14	4				X	X	BOTT		
CANADA BASIN	16	74	28.00	144	35.00	60	10	14	6				X	X	BOTT		
CANADA BASIN	17	74	30.00	144	56.00	60	10	16	1				X	X	BOTT		
CANADA BASIN	18	74	29.00	144	55.00	60	10	16	3				X	X	BOTT		
CANADA BASIN	19	74	37.00	144	53.00	60	10	17	22				X	X	BOTT		
CANADA BASIN	20	74	39.00	144	52.00	60	10	17	23				X	X	BOTT		
CANADA BASIN	21	74	44.00	144	42.00	60	10	20	5				X	X	BOTT		
CANADA BASIN	22	74	43.00	144	40.00	60	10	20	7				X	X	BOTT		
CANADA BASIN	23	74	54.00	144	37.00	60	10	23	2				X	X	BOTT		
CANADA BASIN	24	74	56.00	145	45.00	60	10	23	3				X	X	BOTT		
CANADA BASIN	25	74	57.00	146	30.00	60	10	24	23				X	X	BOTT		
CANADA BASIN	26	74	56.00	146	35.00	60	10	25	1				X	X	BOTT		

CANADA BASIN	27	74	50.00	147	35.00	60	10	26	23	X	X	BOTT
CANADA BASIN	28	74	49.00	147	40.00	60	10	27	2	X	X	BOTT
CANADA BASIN	29	74	44.00	148	17.00	60	10	28	23	X	X	BOTT
CANADA BASIN	30	74	43.00	148	18.00	60	10	29	1	X	X	BOTT
CANADA BASIN	31	74	48.00	148	52.00	60	10	31		X	X	BOTT
CANADA BASIN	32	74	37.00	148	55.00	60	10	31	2	X	X	BOTT
CANADA BASIN	33	74	34.00	149	13.00	60	11	01	1	X	X	BOTT
CANADA BASIN	34	74	33.00	149	20.00	60	11	01	4	X	X	BOTT
CANADA BASIN	35	74	31.00	149	36.00	60	11	03		X	X	BOTT
CANADA BASIN	36	74	31.00	149	39.00	60	11	03	2	X	X	BOTT
CANADA BASIN	37	74	30.00	149	57.00	60	11	06	3	X	X	BOTT
CANADA BASIN	38	74	30.00	149	58.00	60	11	06	5	X	X	BOTT
CANADA BASIN	39	74	28.00	150	3.00	60	11	08		X	X	BOTT
CANADA BASIN	40	74	27.00	150	3.00	60	11	08	2	X	X	BOTT
CANADA BASIN	41	74	21.00	150	15.00	60	11	11	4		X	BOTT
CANADA BASIN	42	74	20.00	150	18.00	60	11	11	6		X	BOTT
CANADA BASIN	43	74	14.00	150	22.00	60	11	12	1		X	BOTT
CANADA BASIN	44	74	18.00	150	23.00	60	11	12	2		X	BOTT
CANADA BASIN	45	74	18.00	150	34.00	60	11	14	2		X	BOTT
CANADA BASIN	46	74	17.00	150	37.00	60	11	14	4		X	BOTT
CANADA BASIN	47	74	12.00	151	18.00	60	11	17	2		X	BOTT
CANADA BASIN	48	74	16.00	151	23.00	60	11	17	4		X	BOTT
CANADA BASIN	49	74	16.00	151	51.00	60	11	19	2		X	BOTT
CANADA BASIN	50	74	16.00	151	55.00	60	11	19	4		X	BOTT
CANADA BASIN	51	74	3.00	152	10.00	60	11	25	4	X	X	BOTT
CANADA BASIN	52	74	4.00	152	10.00	60	11	25	7	X	X	BOTT
CANADA BASIN	53	74	19.00	153	23.00	60	11	29	3	X	X	BOTT
CANADA BASIN	54	74	19.00	153	27.00	60	11	29	7	X	X	BOTT
CANADA BASIN	55	74	19.00	153	39.00	60	11	30	2	X	X	BOTT
CANADA BASIN	56	74	19.00	153	40.00	60	11	30	5	X	X	BOTT
CANADA BASIN	57	74	10.00	154	25.00	60	12	03	2	X	X	BOTT
CANADA BASIN	58	74	9.00	154	26.00	60	12	03	5	X	X	BOTT
CANADA BASIN	59	74	8.00	154	40.00	60	12	04	3	X	X	BOTT
CANADA BASIN	60	74	8.00	154	42.00	60	12	04	6	X	X	BOTT
CANADA BASIN	61	74	8.00	154	53.00	60	12	05	3	X	X	BOTT
	62	74	11.00	157	0.00	60	12	12	1	X	X	BOTT
	63	74	11.00	157	0.00	60	12	12	3	X	X	BOTT
	64	74	26.00	157	59.00	60	12	21	2	X	X	BOTT
	65	74	27.00	158	3.00	60	12	21	6	X	X	BOTT
	66	74	27.00	158	2.00	60	12	21	8	X	X	BOTT
	67	74	48.00	160	5.00	60	12	26	22	X	X	BOTT
	68	74	48.00	160	7.00	60	12	27	1	X	X	BOTT
	69	74	44.00	161	10.00	60	12	30	1	X	X	BOTT
	70	74	44.00	161	10.00	60	12	30	6	X	X	BOTT
	71	74	42.00	161	35.00	61	01	01	3	X	X	BOTT
	72	74	42.00	161	37.00	61	01	01	6	X	X	BOTT
	73	74	40.00	162	17.00	61	01	04	2	X	X	BOTT
	74	74	39.00	162	18.00	61	01	04	2	X	X	BOTT
	75	74	35.00	162	43.00	61	01	08		X	X	BOTT
	76	74	35.00	162	45.00	61	01	08	2	X	X	BOTT
	77	74	42.00	163	17.00	61	01	11		X	X	BOTT
	78	74	42.00	163	17.00	61	01	11	2	X	X	BOTT
	79	74	41.00	163	33.00	61	01	14		X	X	BOTT
	80	74	41.00	163	33.00	61	01	14	2	X	X	BOTT
	81	74	33.00	163	53.00	61	01	16	23	X	X	BOTT
	82	74	33.00	163	53.00	61	01	17	1	X	X	BOTT
	83	74	33.00	164	22.00	61	01	19	23	X	X	BOTT
	84	74	33.00	164	22.00	61	01	20	1	X	X	BOTT
	85	74	42.00	165	15.00	61	01	22	21	X	X	BOTT
	86	74	43.00	165	15.00	61	01	23		X	X	BOTT
	87	74	45.00	165	20.00	61	01	25	23	X	X	BOTT
	88	74	45.00	165	20.00	61	01	26	1	X	X	BOTT
	89	74	53.00	165	58.00	61	01	28	23	X	X	BOTT
	90	74	53.00	165	58.00	61	01	29	1	X	X	BOTT
	91	74	49.00	165	52.00	61	01	31	22	X	X	BOTT
	92	74	49.00	165	52.00	61	02	01	1	X	X	BOTT
	93	74	45.00	165	48.00	61	02	03	23	X	X	BOTT
	94	74	45.00	165	48.00	61	02	04	1	X	X	BOTT
	95	74	46.00	165	37.00	61	02	06	22	X	X	BOTT
	96	74	46.00	165	37.00	61	02	07		X	X	BOTT
	97	74	46.00	165	35.00	61	02	09	22	X	X	BOTT
	98	74	46.00	165	35.00	61	02	10	1	X	X	BOTT
	99	74	48.00	165	49.00	61	02	12	23	X	X	BOTT
	100	74	48.00	165	49.00	61	02	13	1	X	X	BOTT
	101	74	49.00	165	53.00	61	02	15	21	X	X	BOTT
	102	74	49.00	165	53.00	61	02	16		X	X	BOTT
	103	74	50.00	166	0.00	61	02	18	23	X	X	BOTT
	104	74	50.00	166	0.00	61	02	19	1	X	X	BOTT
	105	74	51.00	166	6.00	61	02	21	22	X	X	BOTT
	106	74	51.00	166	6.00	61	02	22		X	X	BOTT
	107	74	44.00	166	8.00	61	02	24	21	X	X	BOTT
	108	74	44.00	166	8.00	61	02	25		X	X	BOTT
	109	74	42.00	166	11.00	61	02	27	22	X	X	BOTT

110	74	42.00	166	11.00	61	02	28				X	X	BOTT	
111	74	43.00	166	22.00	61	03	02	21			X	X	BOTT	
112	74	43.00	166	22.00	61	03	02	23			X	X	BOTT	
113	74	48.00	166	32.00	61	03	05	23			X	X	BOTT	
114	74	48.00	166	32.00	61	03	06	1			X	X	BOTT	
115	74	48.00	166	40.00	61	03	08	23			X	X	BOTT	
116	74	48.00	166	40.00	61	03	09	1			X	X	BOTT	
117	74	51.00	167	7.00	61	03	11	21			X	X	BOTT	
118	74	51.00	167	10.00	61	03	12				X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 61-0024
YEAR:1961 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	76	15.00	167	0.00	61	09	06	2	400	1353		X	X	BOTT		
ALASKAN SHELF	14	71	15.00	159	30.00	61	09	11	22	40	40		X	X	BOTT		
ALASKAN SHELF	15	71	18.00	158	30.00	61	09	12		100	101		X	X	BOTT		
ALASKAN SHELF	16	71	17.00	157	31.00	61	09	12	2	60	62		X	X	BOTT		
ALASKAN SHELF	17	71	45.00	156	30.00	61	09	12	9	58	73		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 61-0025
YEAR:1961 VESSEL/AGENCY: USSR ICE STNS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MAKAROV BASIN		87	30.00	147	0.00*	61	04	?		?	?						

* Nominal location.

BOTTLE/CTD DATA SET NUMBER: 62-0021
YEAR:1962 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	52	72	0.00	159	57.00	62	10	17	4	39	41		X	X	BOTT		
ALASKAN SHELF	53	72	0.00	158	12.00	62	10	17	8	65	69		X	X	BOTT		
ALASKAN SHELF	54	71	57.00	156	7.00	62	10	17	20	58	61		X	X	BOTT		
ALASKAN SHELF	55	71	00.00	160	00.00	62	10	18	03	70	73		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 62-0022
YEAR:1962 VESSEL/AGENCY: CAN. ICE CAMPS (CANADIAN)

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	78	12.50	129	40.00	62	4	27	19	3000	3200		X	X	BOTT		
CANADA BASIN	2	78	7.00	130	20.00	62	4	29	16	3000	3200		X	X	BOTT		
CANADA BASIN	3	78	7.00	130	20.00	62	4	30	4	650	3200		X	X	BOTT		
CANADA BASIN	4	78	7.00	130	20.00	62	4	30	22	125	3200		X	X	BOTT		

CANADA BASIN	5	79	41.00	111	9.00	62	5	7	20	500	539		X	X	BOTT	
CANADA BASIN	6	79	41.00	111	9.00	62	5	11	20	500	539		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 63-0012
YEAR:1963 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	82	42.00	158	16.00	63	07	12	23	3700	3779		X	X	BOTT		
CANADA BASIN	2	82	35.00	158	15.00	63	09	12		3780	3792		X	X	BOTT		
CANADA BASIN	3	82	37.00	156	24.00	63	09	18	20	3764	3790		X	X	BOTT		
CANADA BASIN	4	82	52.00	150	43.00	63	09	26	20	2940	3080		X	X	BOTT		
CANADA BASIN	5	82	38.00	150	58.00	63	10	14		1518	3036		X	X	BOTT		
CANADA BASIN	6	81	42.00	151	42.00	63	10	26		3026	3275		X	X	BOTT		
CANADA BASIN	7	81	4.00	151	40.00	63	11	11		3639	3793		X	X	BOTT		
CANADA BASIN	8	81	3.00	147	52.00	63	11	29		3162	3795		X	X	BOTT		
CANADA BASIN	9	81	4.00	147	28.00	63	12	04		607	3790		X	X	BOTT		
CANADA BASIN	10	81	45.00	145	25.00	63	12	15		3042	3300		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 63-0015
YEAR:1963 VESSEL/AGENCY: CAN. ICE STNS

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	12	83	8.80	74	4.00	63	6	15	21	46	51		X	X	BOTT		
	13	83	8.80	74	6.00	63	6	16	19	27	40		X	X	BOTT		
DISRAELI FJORD	14	83	7.70	73	37.00	63	6	17	14	238	238		X	X	BOTT		
DISRAELI FJORD	15	83	7.10	72	38.00	63	6	17	19	128	132		X	X	BOTT		
DISRAELI FJORD	16	83	8.40	73	59.00	63	6	18	15	46	53		X	X	BOTT		
	17	83	7.90	74	43.00	63	6	18	19	46	87		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 64-0008
YEAR:1964 VESSEL/AGENCY: D.R.E.O.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
QEI SHELF	15	81	34.20	92	35.00	64	6	2	8	291	292		X	X	BOTT		
QEI SHELF	16	81	38.50	93	6.00	64	6	2	15	506	507		X	X	BOTT		
QEI SHELF	17	81	34.00	93	10.00	64	6	3	16	404	405		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 64-0013
YEAR:1964 VESSEL/AGENCY: ARLIS II

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
LOMONOSOV RIDGE	1	87	38.20	062	42.00	64	02	10	21	1200	1395		X	X	BOTT		
LOMONOSOV RIDGE	2	87	31.30	063	48.00	64	02	17		306			X	X	BOTT		
LOMONOSOV RIDGE	3	87	28.10	063	11.00	64	02	18	1	611			X	X	BOTT		
LOMONOSOV RIDGE	4	87	28.00	063	5.00	64	02	19		611			X	X	BOTT		
LOMONOSOV RIDGE	5	87	26.30	061	22.00	64	02	20	21	1119	1137		X	X	BOTT		
LOMONOSOV RIDGE	6	87	22.60	059	9.00	64	02	22	1				X	X	BOTT		
LOMONOSOV RIDGE	7	87	18.90	057	29.00	64	02	25					X	X	BOTT		
LOMONOSOV RIDGE	8	87	17.70	056	55.00	64	02	26					X	X	BOTT		
LOMONOSOV RIDGE	9	87	16.80	056	59.00	64	02	27						X	BOTT		
LOMONOSOV RIDGE	10	87	16.10	057	14.00	64	02	27	22				X	X	BOTT		
LOMONOSOV RIDGE	11	87	15.00	058	14.00	64	02	29					X	X	BOTT		
LOMONOSOV RIDGE	12	87	14.20	059	36.00	64	03	01	1				X	X	BOTT		
LOMONOSOV RIDGE	13	87	13.40	060	7.00	64	03	02	3				X	X	BOTT		
LOMONOSOV RIDGE	14	87	12.80	062	32.00	64	03	03	2				X	X	BOTT		
LOMONOSOV RIDGE	15	87	12.00	064	0.00	64	03	04	23	1119			X	X	BOTT		
LOMONOSOV RIDGE	16	87	11.80	063	52.00	64	03	06	1				X	X	BOTT		
LOMONOSOV RIDGE	17	87	11.60	063	42.00	64	03	07					X	X	BOTT		
LOMONOSOV RIDGE	18	87	11.50	063	38.00	64	03	08	1				X	X	BOTT		
LOMONOSOV RIDGE	19	87	11.30	063	31.00	64	03	09	1				X	X	BOTT		
LOMONOSOV RIDGE	20	87	11.20	063	24.00	64	03	10					X	X	BOTT		
LOMONOSOV RIDGE	21	87	11.10	063	17.00	64	03	11					X	X	BOTT		
LOMONOSOV RIDGE	22	87	10.90	063	10.00	64	03	12	2				X	X	BOTT		
LOMONOSOV RIDGE	23	87	10.70	063	3.00	64	03	13	1				X	X	BOTT		
LOMONOSOV RIDGE	24	87	8.10	061	42.00	64	03	14					X	X	BOTT		
LOMONOSOV RIDGE	25	87	5.90	060	31.00	64	03	14	20	1115	1170		X	X	BOTT		
LOMONOSOV RIDGE	26	87	2.60	058	49.00	64	03	16	1				X	X	BOTT		
LOMONOSOV RIDGE	27	87	0.10	057	28.00	64	03	17					X	X	BOTT		
LOMONOSOV RIDGE	28	86	57.40	057	3.00	64	03	18					X	X	BOTT		
LOMONOSOV RIDGE	29	86	54.60	054	37.00	64	03	19					X	X	BOTT		
LOMONOSOV RIDGE	30	86	51.90	053	9.00	64	03	20					X	X	BOTT		
LOMONOSOV RIDGE	31	86	49.30	051	46.00	64	03	21					X	X	BOTT		
LOMONOSOV RIDGE	32	86	46.60	050	24.00	64	03	22	2				X	X	BOTT		
LOMONOSOV RIDGE	33	86	45.50	050	4.00	64	03	22	18				X	X	BOTT		
	34	86	44.10	049	24.80	64	03	23	19				X	X	BOTT		
	35	86	44.00	049	6.30	64	03	24	20	2254	2254		X	X	BOTT		
	36	86	43.00	049	0.00	64	03	25	20				X	X	BOTT		
	37	86	41.90	048	52.00	64	03	27	1				X	X	BOTT		
	38	86	41.10	048	47.40	64	03	27	20				X	X	BOTT		
	39	86	40.00	048	40.00	64	03	29					X	X	BOTT		
	40	86	39.60	048	16.00	64	03	30					X	X	BOTT		
	41	86	39.60	047	38.70	64	03	30	23				X	X	BOTT		
	42	86	39.40	047	31.00	64	04	01					X	X	BOTT		
	43	86	39.20	047	46.00	64	04	01	19				X	X	BOTT		
	44	86	38.90	048	5.00	64	04	02	20				X	X	BOTT		
	45	86	38.50	048	23.30	64	04	03	20	2429			X	X	BOTT		
	46	86	38.30	048	40.00	64	04	04	20				X	X	BOTT		
	47	86	38.10	048	49.00	64	04	05	20				X	X	BOTT		
	48	86	38.10	048	59.00	64	04	06	20				X	X	BOTT		
	49	86	39.40	049	16.00	64	04	08					X	X	BOTT		
	50	86	40.30	049	28.00	64	04	08	20				X	X	BOTT		
	51	86	41.40	049	43.00	64	04	09	20				X	X	BOTT		
	52	86	40.90	049	46.00	64	04	10	20				X	X	BOTT		
	53	86	39.70	049	42.00	64	04	11	20				X	X	BOTT		
	54	86	40.20	049	36.00	64	04	13	1				X	X	BOTT		
	55	86	40.30	049	42.00	64	04	13	19	2420	2420		X	X	BOTT		
LOMONOSOV RIDGE	56	86	40.30	050	1.00	64	04	14	20				X	X	BOTT		
LOMONOSOV RIDGE	57	86	40.00	050	20.00	64	04	15	19				X	X	BOTT		
LOMONOSOV RIDGE	58	86	39.80	050	40.00	64	04	16	20				X	X	BOTT		
LOMONOSOV RIDGE	60	86	42.00	050	37.00	64	04	17	1				X	X	BOTT		
LOMONOSOV RIDGE	59	86	40.70	050	36.00	64	04	17	19				X	X	BOTT		
LOMONOSOV RIDGE	61	86	42.90	050	33.40	64	04	20					X	X	BOTT		
LOMONOSOV RIDGE	62	86	43.80	050	18.00	64	04	21					X	X	BOTT		
	63	86	44.10	049	21.00	64	04	22	1				X	X	BOTT		
	64	86	44.20	048	15.00	64	04	23	1				X	X	BOTT		
	65	86	44.20	047	24.00	64	04	23	20	1450	1450		X	X	BOTT		
	66	86	44.30	046	17.00	64	04	24	20				X	X	BOTT		
	67	86	43.30	044	47.00	64	04	25	20				X	X	BOTT		

68	86	40.50	043	32.00	64	04	27	1				X	X	BOTT
69	86	38.80	042	42.00	64	04	27	19				X	X	BOTT
70	86	35.40	041	45.00	64	04	28	19				X	X	BOTT
71	86	34.40	041	21.00	64	04	29	19				X	X	BOTT
72	86	33.50	041	26.50	64	04	30	20				X	X	BOTT
73	86	32.70	041	41.00	64	05	01	20				X	X	BOTT
74	86	31.90	041	56.00	64	05	02	20				X	X	BOTT
75	86	31.00	042	10.70	64	05	03	20	2434	3700		X	X	BOTT
76	86	30.50	042	15.00	64	05	04	21				X	X	BOTT
77	86	31.20	041	57.00	64	05	06					X	X	BOTT
78	86	31.40	041	55.00	64	05	07					X	X	BOTT
79	86	31.30	042	12.00	64	05	07	19				X	X	BOTT
80	86	31.60	042	13.80	64	05	09					X	X	BOTT
81	86	31.40	042	15.00	64	05	09	19				X	X	BOTT
82	86	31.40	042	17.00	64	05	10	19				X	X	BOTT
83	86	31.40	042	19.00	64	05	11	20				X	X	BOTT
84	86	31.50	042	20.00	64	05	12	20			3390	X	X	BOTT
85	86	31.50	042	13.60	64	05	13	19	2231		3420	X	X	BOTT
86	86	31.90	041	25.00	64	05	14	23			3470	X	X	BOTT
87	86	32.20	040	48.00	64	05	15	19			3610	X	X	BOTT
88	86	32.50	039	59.00	64	05	16	23			3610	X	X	BOTT
89	86	32.80	039	14.00	64	05	18				3550	X	X	BOTT
90	86	33.10	038	35.00	64	05	18	21			3650	X	X	BOTT
91	86	33.50	037	51.00	64	05	19	20			3650	X	X	BOTT
92	86	34.10	037	0.00	64	05	20	20			3660	X	X	BOTT
93	86	34.60	036	17.00	64	05	21	19			3680	X	X	BOTT
94	86	35.00	035	27.00	64	05	22	20			3660	X	X	BOTT
95	86	31.00	035	22.70	64	05	23	19	1511		3670	X	X	BOTT
96	86	26.80	035	14.00	64	05	24	19			3650	X	X	BOTT
97	86	19.20	033	33.00	64	05	26	20			3650	X	X	BOTT
98	86	11.40	030	36.00	64	05	29				3670	X	X	BOTT
99	86	8.40	028	50.00	64	05	30				3960	X	X	BOTT
0	86	9.10	028	9.00	64	06	01	1			3840	X	X	BOTT
1	86	9.70	028	34.00	64	06	01	19	1510			X	X	BOTT
2	86	8.90	028	33.00	64	06	02	23			3780	X	X	BOTT
9	86	10.00	028	41.00	64	06	13		1508		3789	X	X	BOTT
110	86	12.40	028	36.00	64	06	13	20			3831	X	X	BOTT
111	86	15.20	028	30.00	64	06	14	20			3892	X	X	BOTT
112	86	18.70	028	23.00	64	06	16	1				X	X	BOTT
113	86	20.80	028	29.00	64	06	16	19			3818	X	X	BOTT
114	86	20.70	028	47.00	64	06	17	19			3804	X	X	BOTT
115	86	20.40	029	20.00	64	06	18				3841	X	X	BOTT
116	86	20.00	029	52.00	64	06	20	1			3805	X	X	BOTT
118	86	17.80	030	56.00	64	06	22					X	X	BOTT
119	86	17.00	031	23.00	64	06	22	20	1486			X	X	BOTT
120	86	16.10	032	2.00	64	06	23	23			3589	X	X	BOTT
117	86	19.00	030	22.00	64	06	24	23				X	X	BOTT
121	86	17.20	032	42.00	64	06	25	1			3589	X	X	BOTT
122	86	15.80	032	36.00	64	06	26				3545	X	X	BOTT
123	86	14.50	032	29.00	64	06	27				3567	X	X	BOTT
124	86	13.10	032	23.00	64	06	27	23			3508	X	X	BOTT
125	86	11.80	032	16.00	64	06	29				3537	X	X	BOTT
126	86	11.60	032	15.00	64	06	29	23				X	X	BOTT
127	86	10.80	031	53.00	64	07	01	1			3582	X	X	BOTT
128	86	10.10	031	33.00	64	07	01	23				X	X	BOTT
129	86	9.40	031	14.00	64	07	02	20	1505			X	X	BOTT
130	86	8.60	030	54.00	64	07	04	1				X	X	BOTT
131	86	8.20	030	49.00	64	07	05					X	X	BOTT
132	86	8.30	030	40.00	64	07	07					X	X	BOTT
133	86	11.20	030	33.00	64	07	08					X	X	BOTT
134	86	14.10	030	27.00	64	07	09					X	X	BOTT
135	86	16.30	030	21.00	64	07	09	21			3685	X	X	BOTT
136	86	16.30	030	21.00	64	07	09	22				X	X	BOTT
137	86	16.40	030	20.00	64	07	10					X	X	BOTT
138	86	16.40	030	20.00	64	07	10	1				X	X	BOTT
139	86	16.40	030	19.00	64	07	10	3				X	X	BOTT
140	86	16.50	030	19.00	64	07	10	4				X	X	BOTT
141	86	16.50	030	19.00	64	07	10	6				X	X	BOTT
142	86	16.50	030	18.00	64	07	10	7				X	X	BOTT
143	86	16.60	030	18.00	64	07	10	9				X	X	BOTT
144	86	16.60	030	17.00	64	07	10	10				X	X	BOTT
145	86	16.70	030	17.00	64	07	10	12				X	X	BOTT
146	86	16.70	030	16.00	64	07	10	13				X	X	BOTT
147	86	16.70	030	16.00	64	07	10	15				X	X	BOTT
148	86	16.80	030	16.00	64	07	10	16				X	X	BOTT
149	86	16.80	030	15.00	64	07	10	18				X	X	BOTT
150	86	16.80	030	15.00	64	07	10	19				X	X	BOTT
151	86	16.90	030	14.00	64	07	10	21				X	X	BOTT
152	86	16.90	030	14.00	64	07	10	22				X	X	BOTT
153	86	16.90	030	14.00	64	07	10	22			3715	X	X	BOTT
154	86	18.20	029	59.00	64	07	13					X	X	BOTT
155	86	18.70	029	53.00	64	07	13	21	1503		3796	X	X	BOTT
156	86	19.70	029	37.00	64	07	16	1			3992	X	X	BOTT
157	86	18.70	029	27.00	64	07	16	21			3715	X	X	BOTT
158	86	17.50	029	3.00	64	07	18	1				X	X	BOTT
159	86	17.50	028	10.00	64	07	18	23			3693	X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 64-0017
YEAR:1964 VESSEL/AGENCY: ICE ISLAND T-3 , MCGILL UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HO HR
CANADA BASIN	1	80 53.50	136 47.00*	64 06 23	2000			X	X	BOTT	
CANADA BASIN	2	80 51.60	136 47.30	64 06 29	2000			X	X	BOTT	
CANADA BASIN	3	80 49.70	136 47.60	64 07 07	500			X	X	BOTT	
CANADA BASIN	4	80 47.80	136 47.90	64 07 13	400			X	X	BOTT	
CANADA BASIN	5	80 45.90	136 48.20	64 07 25	3000			X	X	BOTT	
CANADA BASIN	6	80 44.10	136 48.50	64 08 01	3000			X	X	BOTT	
CANADA BASIN	7	80 42.20	136 48.80	64 08 08	3000			X	X	BOTT	
CANADA BASIN	8	80 40.30	136 49.10	64 08 15	3000			X	X	BOTT	
CANADA BASIN	9	80 38.40	136 49.40	64 08 24	3000			X	X	BOTT	
CANADA BASIN	10	80 36.50	136 49.70	64 09 01	3000			X	X	BOTT	
CANADA BASIN	11	80 34.60	136 50.00	64 09 08	3000			X	X	BOTT	

* Locations are interpolated.

BOTTLE/CTD DATA SET NUMBER: 65-0013
YEAR:1965 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HO HR
CANADA BASIN	1	76 7.60	141 59.00	65 07 21 5	2480	3690		X	X	BOTT	
CANADA BASIN	2	75 43.90	142 14.00	65 07 30 20		3690		X	X	BOTT	
CANADA BASIN	3	75 38.80	140 57.00	65 08 06 21		3670		X	X	BOTT	
CANADA BASIN	4	76 6.00	141 46.00	65 08 22 23	3450	3680		X	X	BOTT	
CANADA BASIN	4	76 6.00	141 46.00	65 08 22 23	3450	3680		X	X	BOTT	
CANADA BASIN	5	74 32.00	141 37.00	65 10 09	80	3300		X	X	BOTT	
CANADA BASIN	6	74 40.00	141 39.00	65 10 11 3	85			X	X	BOTT	
CANADA BASIN	7	74 39.50	141 39.00	65 10 14 5	85			X	X	BOTT	
CANADA BASIN	8	74 30.00	141 42.00	65 10 21 1	85			X	X	BOTT	
CANADA BASIN	9	74 30.00	141 42.00	65 10 21 23	300	3700		X	X	BOTT	
CANADA BASIN	10	74 32.00	141 43.00	65 10 22 23	297			X	X	BOTT	
CANADA BASIN	11	74 34.30	141 43.00	65 10 23 3	300	3700		X	X	BOTT	
CANADA BASIN	12	74 39.00	142 13.00	65 10 24 3	75	3700		X	X	BOTT	
CANADA BASIN	13	74 43.90	142 27.00	65 10 26 20	75	3700		X	X	BOTT	
CANADA BASIN	14	74 42.70	142 16.00	65 10 27 21	787	3700		X	X	BOTT	
CANADA BASIN	15	74 21.30	141 52.00	65 10 30	75	3700		X	X	BOTT	
CANADA BASIN	16	74 17.10	141 55.00	65 11 02	75			X	X	BOTT	
CANADA BASIN	17	74 17.70	141 56.00	65 11 03	263	3670		X	X	BOTT	
CANADA BASIN	18	74 19.00	141 51.50	65 11 05 1	75			X	X	BOTT	
CANADA BASIN	19	74 21.00	141 43.00	65 11 08	73			X	X	BOTT	
CANADA BASIN	20	74 23.00	141 47.00	65 11 08 22	1977	3670		X	X	BOTT	
CANADA BASIN	21	74 23.00	141 42.00	65 11 10 23	80			X	X	BOTT	
CANADA BASIN	22	74 27.70	141 42.00	65 11 14	80			X	X	BOTT	
CANADA BASIN	23	74 34.90	142 32.00	65 11 16 23	80			X	X	BOTT	
CANADA BASIN	24	74 53.00	143 12.00	65 11 20 1	80			X	X	BOTT	
CANADA BASIN	25	74 56.90	143 27.00	65 11 21 23				X	X	BOTT	
CANADA BASIN	26	74 58.90	143 42.00	65 11 23		3730		X	X	BOTT	
CANADA BASIN	27	75 1.80	143 47.00	65 11 23 22	81	3770		X	X	BOTT	
CANADA BASIN	28	75 4.40	144 1.00	65 11 25 23	80	3750		X	X	BOTT	
CANADA BASIN	29	75 5.50	144 1.00	65 11 26 6	2926	3750		X	X	BOTT	
CANADA BASIN	30	75 9.90	144 13.00	65 11 28 23	80	3770		X	X	BOTT	
CANADA BASIN	31	75 27.00	146 5.00	65 12 01 21	80	3750		X	X	BOTT	
CANADA BASIN	32	75 27.30	146 47.00	65 12 05	80	3750		X	X	BOTT	
CANADA BASIN	33	75 21.00	146 50.00	65 12 07 20	80			X	X	BOTT	
CANADA BASIN	34	75 20.00	146 47.00	65 12 08 20	293			X	X	BOTT	
CANADA BASIN	35	75 19.80	146 50.00	65 12 11 3	40			X	X	BOTT	
CANADA BASIN	36	75 21.70	146 51.00	65 12 13 23	80	3780		X	X	BOTT	
CANADA BASIN	37	75 16.00	147 16.00	65 12 17	80			X	X	BOTT	
CANADA BASIN	38	75 15.80	147 18.00	65 12 17 2	89	3780		X	X	BOTT	
CANADA BASIN	39	75 15.80	147 18.00	65 12 17 4				X	X	BOTT	
CANADA BASIN	40	75 13.10	147 18.00	65 12 20 4	80			X	X	BOTT	
CANADA BASIN	41	75 17.10	147 0.00	65 12 23	80			X	X	BOTT	
CANADA BASIN	42	75 16.00	146 35.00	65 12 25 22	80			X	X	BOTT	
CANADA BASIN	43	75 25.30	146 18.00	65 12 26 23	80			X	X	BOTT	
CANADA BASIN	44	75 19.00	146 8.00	65 12 29	80			X	X	BOTT	

CANADA BASIN	45	75	15.80	146	6.00	66	01	01	1	80	3810		X	X	BOTT	
CANADA BASIN	46	75	17.90	146	0.00	66	01	03	22	175	3850		X	X	BOTT	
CANADA BASIN	47	75	17.90	146	0.00	66	01	03	23		3850		X	X	BOTT	
CANADA BASIN	48	75	17.90	146	0.00	66	01	04		80	3850		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 65-0014
YEAR:1965 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	71	48.00	153	0.00	65	7	31	20	500	932		X	X	BOTT		
	2	71	58.00	152	0.00	65	8	1	22	750	1445		X	X	BOTT		
	3	71	53.00	152	0.00	65	8	2	20	1500	1866		X	X	BOTT		
CANADA BASIN	4	72	21.00	152	28.00	65	8	3	20	2500			X	X	BOTT		
CANADA BASIN	5	72	53.00	152	42.00	65	8	4	19	1500	3841		X	X	BOTT		
CANADA BASIN	6	72	49.00	152	49.00	65	8	8	21	1500	3841		X	X	BOTT		
CANADA BASIN	7	72	45.00	152	48.00	65	8	9	17	3000	3841		X	X	BOTT		
CANADA BASIN	8	72	49.00	153	20.00	65	8	11	10	1520	3658		X	X	BOTT		
CANADA BASIN	9	72	38.00	153	36.00	65	8	12	8	1500	3292		X	X	BOTT		
CANADA BASIN	10	72	28.00	154	0.00	65	8	13	11	1500	2743		X	X	BOTT		
CANADA BASIN	11	72	36.00	153	23.00	65	8	14	14	1500	3292		X	X	BOTT		
CANADA BASIN	12	72	41.00	153	24.00	65	8	15	9	1500	3566		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 65-0016
YEAR:1965 VESSEL/AGENCY: FISHERIES RESEARCH BOARD CANADA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	76	41.00	129	0.00	65	4	11	4	2550	2596		X	X	BOTT		
CANADA BASIN	3	76	41.00	129	0.00	65	4	15	4	1000	2596		X	X	BOTT		
CANADA BASIN	4	76	41.00	129	0.00	65	4	16	4	1000	2596		X	X	BOTT		
CANADA BASIN	5	76	41.00	129	0.00	65	4	17	3	1000	2596		X	X	BOTT		
CANADA BASIN	6	76	41.00	129	0.00	65	4	18	7	300	2596		X	X	BOTT		
CANADA BASIN	7	76	41.00	129	0.00	65	4	19	3	300	2596		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 66-0014
YEAR:1966 VESSEL/AGENCY: DEF.RES.BD.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	13	83	8.70	74	3.00	66	6	11	16	50	50		X	X	BOTT		
DISRAELI FJORD	14	82	55.20	73	35.00	66	6	12	20	300	367		X	X	BOTT		
DISRAELI FJORD	15	82	50.70	73	24.00	66	6	13	15	200	230		X	X	BOTT		
M'CLINTOCK INLET	17	82	48.70	76	41.00	66	6	19	15	600	600		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 66-0015
YEAR:1966 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	0	75	49.60	150	37.00	66	07	17	5	175	3835		X	X	BOTT		
CANADA BASIN	1	75	50.10	150	37.00	66	07	17	23		3835		X	X	BOTT		
CANADA BASIN	2	75	50.60	150	37.00	66	07	18	6	84	3835		X	X	BOTT		
CANADA BASIN	3	75	50.80	150	37.00	66	07	18	9		3835		X	X	BOTT		
CANADA BASIN	4	75	51.60	150	48.00	66	07	22	6	70	3835		X	X	BOTT		
CANADA BASIN	5	75	51.80	150	53.00	66	07	23	1	243	3835		X	X	BOTT		
CANADA BASIN	6	75	51.90	150	59.00	66	07	23	21	497	3834		X	X	BOTT		
CANADA BASIN	7	75	48.50	151	20.00	66	07	25		75	3834		X	X	BOTT		
CANADA BASIN	8	75	45.00	151	42.50	66	07	25	23	299	3837		X	X	BOTT		
CANADA BASIN	9	75	43.40	151	53.00	66	07	26	20		3837		X	X	BOTT		
CANADA BASIN	49	75	18.50	146	33.00	66	01	21	1	80			X	X	BOTT		
CANADA BASIN	50	75	37.90	147	30.00	66	01	25	23	80			X	X	BOTT		
CANADA BASIN	51	76	8.20	151	1.50	66	02	03	20	80			X	X	BOTT		
CANADA BASIN	52	76	2.40	151	15.50	66	02	06	21	80			X	X	BOTT		
CANADA BASIN	53	75	52.90	151	50.00	66	02	09	20	80			X	X	BOTT		
CANADA BASIN	54	75	46.00	151	19.00	66	02	13	1	80			X	X	BOTT		
CANADA BASIN	55	75	49.80	151	24.00	66	02	16	1	80			X	X	BOTT		
CANADA BASIN	56	75	57.70	151	50.00	66	02	19	6	80			X	X	BOTT		
CANADA BASIN	57	75	58.10	152	21.00	66	02	21	20	80			X	X	BOTT		
CANADA BASIN	58	75	55.60	153	29.00	66	02	25	2	80			X	X	BOTT		
CANADA BASIN	59	75	51.00	153	41.00	66	02	27	21	60			X	X	BOTT		
CANADA BASIN	60	75	50.20	153	33.00	66	03	04	8	90			X	X	BOTT		
CANADA BASIN	61	75	51.90	153	37.00	66	03	07	6	15			X	X	BOTT		
CANADA BASIN	62	75	41.60	153	52.20	66	03	10	5	90			X	X	BOTT		
CANADA BASIN	63	75	32.10	153	53.00	66	03	12	19	90			X	X	BOTT		
CANADA BASIN	64	75	29.60	154	53.00	66	03	15	23	90			X	X	BOTT		
CANADA BASIN	65	75	29.40	155	3.50	66	03	18	19	90			X	X	BOTT		
CANADA BASIN	66	75	29.30	155	6.50	66	03	22	8	90			X	X	BOTT		
CANADA BASIN	67	75	28.80	155	24.00	66	03	24	18	90			X	X	BOTT		
NORTHWIND RDGE	68	75	23.10	156	7.50	66	04	03		2180	2193		X	X	BOTT		
NORTHWIND RDGE	69	75	23.10	156	7.50	66	04	04	1	1897	2193		X	X	BOTT		
NORTHWIND RDGE	70	75	23.10	156	7.50	66	04	04	4	499	2193		X	X	BOTT		
NORTHWIND RDGE	71	75	17.20	156	10.00	66	04	08	18	60			X	X	BOTT		
NORTHWIND RDGE	72	75	16.50	156	12.50	66	04	09	1	90			X	X	BOTT		
NORTHWIND RDGE	73	75	4.00	156	46.00	66	04	17	2	2444			X	X	BOTT		
NORTHWIND RDGE	74	75	4.00	156	46.00	66	04	17	7	1496			X	X	BOTT		
NORTHWIND RDGE	75	75	12.90	156	53.00	66	05	03		99	1070		X	X	BOTT		
NORTHWIND RDGE	76	75	13.60	156	58.00	66	05	03	20	554	1164		X	X	BOTT		
CANADA BASIN	77	75	28.40	155	25.00	66	05	19	22	3850	3879		X	X	BOTT		
CANADA BASIN	78	75	28.40	155	31.00	66	05	20	3	2550	3879		X	X	BOTT		
CANADA BASIN	79	75	27.30	155	33.00	66	05	21	8	1250	3879		X	X	BOTT		
CANADA BASIN	80	75	27.30	155	33.00	66	05	21	10		3879		X	X	BOTT		
CANADA BASIN	81	75	33.90	154	29.00	66	06	11	1	150	3879		X	X	BOTT		
CANADA BASIN	82	75	34.80	154	31.00	66	06	11	7	492	3879		X	X	BOTT		
CANADA BASIN	83	75	37.40	154	31.00	66	06	12	5	1386	3879		X	X	BOTT		
CANADA BASIN	84	75	39.60	154	8.50	66	06	13	1	73	3850		X	X	BOTT		
CANADA BASIN	85	75	37.70	153	57.00	66	06	15		3635	3827		X	X	BOTT		
CANADA BASIN	86	75	48.60	153	28.00	66	06	19	1		3895		X	X	BOTT		
CANADA BASIN	87	75	49.10	153	30.00	66	06	19	5	322	3895		X	X	BOTT		
CANADA BASIN	88	75	49.60	152	17.50	66	06	25		125	3891		X	X	BOTT		
CANADA BASIN	89	75	48.50	132	17.00	66	06	25	1	344	3891		X	X	BOTT		
CANADA BASIN	90	75	42.90	152	3.00	66	06	26	5	1176	3838		X	X	BOTT		
CANADA BASIN	91	75	40.70	151	53.00	66	06	27	6	110	3838		X	X	BOTT		
CANADA BASIN	92	75	36.00	151	22.50	66	07	06	2	183	3837		X	X	BOTT		
CANADA BASIN	93	75	36.00	151	22.50	66	07	06	3	348	3837		X	X	BOTT		
CANADA BASIN	94	75	36.00	151	22.50	66	07	06	6	597	3837		X	X	BOTT		
CANADA BASIN	95	75	39.00	151	15.00	66	07	09			3837		X	X	BOTT		
CANADA BASIN	96	75	39.80	151	15.00	66	07	09		190	3836		X	X	BOTT		
CANADA BASIN	97	75	39.80	151	15.00	66	07	09	1	220	3836		X	X	BOTT		
CANADA BASIN	98	75	39.80	151	15.00	66	07	09	2		3836		X	X	BOTT		
CANADA BASIN	99	75	40.50	151	12.50	66	07	09	9		3835		X	X	BOTT		
CANADA BASIN	110	75	39.10	152	7.50	66	07	27	23	40	3837		X	X	BOTT		
CANADA BASIN	111	75	37.20	152	0.00	66	07	28	23		3839		X	X	BOTT		
CANADA BASIN	112	75	34.00	151	50.50	66	07	29	22	3776	3840		X	X	BOTT		
CANADA BASIN	113	75	32.90	151	49.00	66	07	31	2	990	3840		X	X	BOTT		
CANADA BASIN	114	75	34.20	151	52.00	66	07	31	22	30	3840		X	X	BOTT		
CANADA BASIN	115	75	37.80	151	57.50	66	08	01	22	150	3840		X	X	BOTT		
CANADA BASIN	116	75	47.50	152	17.00	66	08	02	20	150	3840		X	X	BOTT		
CANADA BASIN	117	75	50.30	152	32.00	66	08	03	21		3840		X	X	BOTT		
CANADA BASIN	118	75	53.40	152	41.50	66	08	04	19	75	3840		X	X	BOTT		
CANADA BASIN	119	75	59.20	152	23.00	66	08	06	3	248	3840		X	X	BOTT		

CANADA BASIN	120	76	0.90	152	27.50	66	08	07	1	987	3839	X	X	BOTT
CANADA BASIN	121	75	58.70	153	1.50	66	08	07	22	65	3839	X	X	BOTT
CANADA BASIN	122	75	58.40	153	7.00	66	08	08	21	75	3839	X	X	BOTT
CANADA BASIN	123	75	58.20	153	18.00	66	08	09	19	75	3839	X	X	BOTT
CANADA BASIN	124	75	56.80	153	45.00	66	08	11	6	299	3839	X	X	BOTT
CANADA BASIN	125	75	56.80	153	48.00	66	08	11	22	987	3839	X	X	BOTT
CANADA BASIN	126	75	50.00	153	55.00	66	08	12	23	80	3839	X	X	BOTT
CANADA BASIN	127	75	44.40	153	52.50	66	08	13	23	325	3839	X	X	BOTT
CANADA BASIN	128	75	38.50	154	4.00	66	08	14	23	75	3839	X	X	BOTT
CANADA BASIN	129	75	30.50	154	32.00	66	08	16	21	85	3839	X	X	BOTT
CANADA BASIN	130	75	28.80	154	43.50	66	08	17	20	80	3840	X	X	BOTT
CANADA BASIN	131	75	28.60	154	47.00	66	08	17	21	325	3840	X	X	BOTT
CANADA BASIN	132	75	28.50	154	42.00	66	08	18	20	75	3843	X	X	BOTT
CANADA BASIN	133	75	28.50	154	40.00	66	08	19	21	60	3843	X	X	BOTT
CANADA BASIN	134	75	30.90	154	37.00	66	08	20	23	320	3843	X	X	BOTT
CANADA BASIN	135	75	33.80	154	37.00	66	08	21	21	80	3842	X	X	BOTT
CANADA BASIN	136	75	34.90	154	47.00	66	08	22	21	80	3842	X	X	BOTT
CANADA BASIN	137	75	35.70	155	3.00	66	08	23	20	80	3842	X	X	BOTT
CANADA BASIN	138	75	36.40	155	17.00	66	08	24	22	80	3842	X	X	BOTT
CANADA BASIN	139	75	37.10	155	30.00	66	08	25	20	75	3842	X	X	BOTT
CANADA BASIN	140	75	38.20	155	37.00	66	08	26	20	316	3842	X	X	BOTT
NORTHWIND RDGE	141	75	41.60	156	6.00	66	08	27	20	75		X	X	BOTT
NORTHWIND RDGE	142	75	42.80	156	8.00	66	08	27	23	344	1620	X	X	BOTT
NORTHWIND RDGE	143	75	44.20	156	34.00	66	08	28	22	70		X	X	BOTT
NORTHWIND RDGE	144	75	44.50	156	37.00	66	08	28	23		1199	X	X	BOTT
NORTHWIND RDGE	145	75	44.90	156	42.30	66	08	29		980	1196	X	X	BOTT
NORTHWIND RDGE	146	75	47.30	157	4.00	66	08	29	21	70	890	X	X	BOTT
NORTHWIND RDGE	147	75	45.60	157	14.00	66	08	31	6	70	884	X	X	BOTT
NORTHWIND RDGE	148	75	44.20	157	18.00	66	08	31	22	70	880	X	X	BOTT
NORTHWIND RDGE	149	75	43.70	157	21.50	66	08	31	23	250	885	X	X	BOTT
NORTHWIND RDGE	150	75	43.00	157	23.00	66	09	01		863	880	X	X	BOTT
	151	75	45.70	158	23.00	66	09	06	8	70	670	X	X	BOTT
	152	75	46.20	158	31.90	66	09	06	21	60		X	X	BOTT
	153	75	46.90	158	32.00	66	09	07			597	X	X	BOTT
	154	75	47.00	158	30.10	66	09	07	1	586	597	X	X	BOTT
	155	75	47.20	158	27.00	66	09	07	21	60	624	X	X	BOTT
	156	75	47.40	158	23.00	66	09	08	21	70	615	X	X	BOTT
	157	75	46.30	158	26.00	66	09	09		315	615	X	X	BOTT
	158	75	45.80	158	31.00	66	09	09	21	70	638	X	X	BOTT
	159	75	44.80	158	36.00	66	09	10		638	639	X	X	BOTT
	160	75	43.80	158	44.00	66	09	10	20	70	645	X	X	BOTT
	161	75	45.70	159	44.00	66	09	12	23	90		X	X	BOTT
	162	75	44.00	160	12.50	66	09	14		350	1819	X	X	BOTT
	163	75	43.70	160	15.00	66	09	14	5		1819	X	X	BOTT
	164	75	42.80	160	37.00	66	09	15	5	70	97	X	X	BOTT
	165	75	42.50	160	43.00	66	09	16		350	2099	X	X	BOTT
	166	75	42.40	160	47.00	66	09	16	21	70	2100	X	X	BOTT
	167	75	42.30	160	52.00	66	09	17	1	2000	2099	X	X	BOTT
	168	75	42.30	160	55.00	66	09	17	21	70	2100	X	X	BOTT
	169	75	43.50	161	18.00	66	09	18	22	70		X	X	BOTT
	170	75	44.90	161	41.00	66	09	19	19	70		X	X	BOTT
	171	75	45.20	161	43.00	66	09	19	23	349		X	X	BOTT
	172	75	46.40	162	3.00	66	09	20	21	70		X	X	BOTT
	173	75	48.00	162	33.00	66	09	21	20	70		X	X	BOTT
	174	77	12.40	170	3.00	66	11	04	2	75	2193	X	X	BOTT
	175	77	19.20	170	56.00	66	11	05	7	340		X	X	BOTT
	176	77	23.60	171	2.50	66	11	06	2	591	2351	X	X	BOTT
	177	77	25.60	171	9.00	66	11	06	6	110	2225	X	X	BOTT
	178	77	37.40	172	58.00	66	11	08	20			X	X	BOTT
	179	77	38.50	173	6.00	66	11	08	23	1723		X	X	BOTT
	180	77	42.90	173	54.00	66	11	10	12		2120	X	X	BOTT
	181	77	41.90	173	58.00	66	11	10	14	250		X	X	BOTT
MENDELEYEV RIDGE	182	77	37.90	174	28.00	66	11	13	23	70		X	X	BOTT
MENDELEYEV RIDGE	183	77	37.90	174	28.00	66	11	14		325		X	X	BOTT
MENDELEYEV RIDGE	184	78	10.40	175	48.00	66	11	20		350	1485	X	X	BOTT
MENDELEYEV RIDGE	185	78	9.60	175	44.00	66	11	21			1485	X	X	BOTT
MENDELEYEV RIDGE	186	78	9.80	176	35.00	66	11	26	5	50		X	X	BOTT
MENDELEYEV RIDGE	187	78	3.80	174	54.00	66	12	02	8	325	1355	X	X	BOTT
MENDELEYEV RIDGE	188	77	58.40	174	39.00	66	12	06	4	65		X	X	BOTT
MENDELEYEV RIDGE	189	78	47.10	175	47.00	67	02	20	2	55		X	X	BOTT
MENDELEYEV RIDGE	190	78	47.10	175	47.00	67	02	20	4			X	X	BOTT
MENDELEYEV RIDGE	191	78	47.10	175	47.00	67	02	20	20			X	X	BOTT
MENDELEYEV RIDGE	192	78	47.10	175	47.00	67	02	21			1498	X	X	BOTT
MENDELEYEV RIDGE	193	78	47.10	175	47.00	67	02	21	20	55	1498	X	X	BOTT
MENDELEYEV RIDGE	194	78	45.80	175	54.00	67	02	23	20		1566	X	X	BOTT
MENDELEYEV RIDGE	195	78	49.90	175	28.50	67	03	24	19	20	1615	X	X	BOTT
MENDELEYEV RIDGE	196	78	50.00	175	29.00	67	03	24	21	70	1615	X	X	BOTT
MENDELEYEV RIDGE	197	78	50.00	175	29.00	67	03	24	23		1615	X	X	BOTT
MENDELEYEV RIDGE	198	78	50.00	175	29.00	67	03	25	1	275		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 66-0018
YEAR:1966 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NW RIDGE		75 46.00	159 40.00	66 09 ?	2093	2116						

BOTTLE/CTD DATA SET NUMBER: 66-0019
YEAR:1966 VESSEL/AGENCY: SOVIET ICE STATION NP-15

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	A	82 59.10	157 49.50	66 01*	400					BOTT		
CANADA BASIN	B	84 10.74	157 49.50	66 01	400					BOTT		

* Dates and locations are estimates.

BOTTLE/CTD DATA SET NUMBER: 66-0020
YEAR:1966 VESSEL/AGENCY: ARCTIC RESEARCH COMPANY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW		71 17.50	156 42.00	66 06*			X		X	RS5		
BARROW		71 17.50	156 42.00	66 03			X		X	RS5		
BARROW		71 17.50	156 42.00	67 03				X	X	BOTT		
BARROW		71 17.50	156 42.00	72 03			X		X	RS5		

* Nominal dates and location.

BOTTLE/CTD DATA SET NUMBER: 67-0010
YEAR:1967 VESSEL/AGENCY: ICE CAMP, McGILL UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DISRAELI FJORD	3	82 54.30	73 45.00	67 5 23 20	285	294		X	X	BOTT		
DISRAELI FJORD	5	82 54.30	73 45.00	67 5 26 6	280	294		X	X	BOTT		
DISRAELI FJORD	6	82 54.30	73 45.00	67 5 26 9	280	294		X	X	BOTT		
DISRAELI FJORD	7	82 54.30	73 54.00	67 5 26 18	280	294		X	X	BOTT		
DISRAELI FJORD	8	82 54.30	73 45.00	67 5 27 2	280	294		X	X	BOTT		
DISRAELI FJORD	10	82 54.30	73 45.00	67 5 28 1	280	294		X	X	BOTT		
DISRAELI FJORD	11	82 58.50	73 53.00	67 5 28 4	220	224		X	X	BOTT		
DISRAELI FJORD	13	82 54.30	73 45.00	67 5 29	280	294		X	X	BOTT		
DISRAELI FJORD	14	82 54.30	73 45.00	67 5 30 5	285	294		X	X	BOTT		
DISRAELI FJORD	15	82 50.40	73 25.00	67 5 30 7	392	397		X	X	BOTT		
DISRAELI FJORD	16	82 54.30	73 45.00	67 5 30 21	285	294		X	X	BOTT		
DISRAELI FJORD	17	82 43.50	72 36.00	67 5 31 15	230	162		X	X	BOTT		
DISRAELI FJORD	18	82 54.30	73 45.00	67 5 31 21	285	294		X	X	BOTT		
DISRAELI FJORD	19	82 54.30	73 45.00	67 6 1 4	285	294		X	X	BOTT		
DISRAELI FJORD	20	82 54.30	73 45.00	67 6 1 15	285	294		X	X	BOTT		
DISRAELI FJORD	21	82 47.60	73 15.00	67 6 2 19	390	393		X	X	BOTT		
DISRAELI FJORD	22	82 54.30	73 45.00	67 6 2 19	285	294		X	X	BOTT		
DISRAELI FJORD	23	82 54.30	73 45.00	67 6 3 2	100	294		X	X	BOTT		
DISRAELI FJORD	25	82 54.30	73 45.00	67 6 6 17	285	294		X	X	BOTT		

DISRAELI FJORD	30	82	54.30	73	45.00	67	6	9	22	20	294		X	X	BOTT
DISRAELI FJORD	31	82	54.30	73	45.00	67	6	10	15	285	294		X	X	BOTT
DISRAELI FJORD	34	82	57.60	73	37.00	67	6	11	16	44	45		X	X	BOTT
DISRAELI FJORD	36	82	54.30	73	45.00	67	6	12	14	285	294		X	X	BOTT
DISRAELI FJORD	39	82	54.30	73	45.00	67	6	27	17	285	294		X	X	BOTT
DISRAELI FJORD	41	82	54.30	73	45.00	67	7	5	18	285	294		X	X	BOTT
DISRAELI FJORD	43	82	54.30	73	45.00	67	7	10	19	285	294		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 67-0011
YEAR:1967 VESSEL/AGENCY: ICE STNS, McGILL UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
LINCOLN SEA	1	82	38.95	61	34.38	67	6	12	14	79			X	X	BOTT		
LINCOLN SEA	2	82	46.50	60	43.34	67	6	13	9	130			X	X	BOTT		
LINCOLN SEA	3	82	54.64	59	59.84	67	6	13	13	120			X	X	BOTT		
LINCOLN SEA	4	83	3.30	59	15.54	67	6	13	15	140			X	X	BOTT		
LINCOLN SEA	5	82	33.72	60	22.53	67	6	13	19	228			X	X	BOTT		
LINCOLN SEA	6	82	32.97	59	31.53	67	6	14	13	220			X	X	BOTT		
LINCOLN SEA	7	82	33.44	58	3.51	67	6	14	15	210			X	X	BOTT		
LINCOLN SEA	8	82	32.32	56	15.92	67	6	14	19	460			X	X	BOTT		
LINCOLN SEA	9	82	46.98	51	56.17	67	6	15	12	545			X	X	BOTT		
LINCOLN SEA	10	82	38.39	59	53.15	67	6	16	9	115			X	X	BOTT		
LINCOLN SEA	11	82	45.72	57	30.59	67	6	19	10	165			X	X	BOTT		
LINCOLN SEA	12	82	43.88	55	48.68	67	6	18	15	525			X	X	BOTT		
LINCOLN SEA	13	82	52.88	52	41.01	67	6	19	12	475			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 67-0013
YEAR:1967 VESSEL/AGENCY: ICE CAMP, DEFENSE RESEARCH BOARD CANADA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	4	82	57.00	71	15.00	67	5	26	1	200	204		X	X	BOTT		
	9	83	10.00	74	51.00	67	5	27	21	75	79		X	X	BOTT		
PHILLIPS INLET	32	82	1.00	87	22.00	67	6	10	17	69	70		X	X	BOTT		
PHILLIPS INLET	33	82	6.00	86	57.00	67	6	10	21	150	178		X	X	BOTT		
	37	83	8.00	75	50.00	67	6	25	2	488	491		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 67-0019
YEAR:1967 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MENDELEYEV RIDGE	1	80	2.30	174	11.00	67	06	09	17	50	1720		X	X	BOTT		
MENDELEYEV RIDGE	2	80	2.60	174	10.00	67	06	09	20		1720		X	X	BOTT		
MENDELEYEV RIDGE	3	80	6.50	174	3.00	67	06	10	9	325	1780		X	X	BOTT		
CANADA BASIN	4	80	15.80	173	42.00	67	06	12	12		2193		X	X	BOTT		
CANADA BASIN	5	80	15.20	173	39.00	67	06	13	4		2193		X	X	BOTT		
CANADA BASIN	6	79	55.70	170	16.00	67	07	18	7	60			X	X	BOTT		
CANADA BASIN	7	79	56.00	170	15.00	67	07	18	10	150			X	X	BOTT		
CANADA BASIN	8	79	57.50	170	13.00	67	07	18	12	450			X	X	BOTT		
CANADA BASIN	9	79	58.90	170	9.00	67	07	18	16		3312		X	X	BOTT		
CANADA BASIN	10	80	5.50	170	3.00	67	07	19	13		3318		X	X	BOTT		
CANADA BASIN	11	79	32.10	170	50.00	67	08	15	8	60	2871		X	X	BOTT		
CANADA BASIN	12	79	32.50	170	48.00	67	08	15	11	150	2871		X	X	BOTT		
CANADA BASIN	13	79	33.00	170	40.00	67	08	15	14	375	2871		X	X	BOTT		

CANADA BASIN	14	79	33.00	169	38.50	67	08	17	10		3169	X	X	BOTT	
CANADA BASIN	15	79	33.20	169	30.00	67	08	17	16		3169	X	X	BOTT	
CANADA BASIN	16	79	58.70	169	6.00	67	09	02	23	60		X	X	BOTT	
CANADA BASIN	17	79	58.20	169	5.80	67	09	03	1	150		X	X	BOTT	
CANADA BASIN	18	79	58.00	169	6.00	67	09	03	6	450		X	X	BOTT	
CANADA BASIN	19	79	56.20	169	1.00	67	09	04	1			X	X	BOTT	
CANADA BASIN	20	79	55.80	168	57.00	67	09	04	7		3298	X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 67-0020
YEAR:1967 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	80	30.50	158	58.00	67	11	19	1	65	3535		X	X	BOTT		
CANADA BASIN	2	80	30.50	158	58.00	67	11	19	5	400	3535		X	X	BOTT		
CANADA BASIN	3	80	32.00	158	56.00	67	11	19	7	1500	3520		X	X	BOTT		
CANADA BASIN	4	80	33.00	158	55.00	67	11	20	1	300	3509		X	X	BOTT		
CANADA BASIN	5	80	34.00	158	55.00	67	11	20	4	2000	3509		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 67-0021
YEAR:1967 VESSEL/AGENCY: T-3, MCGILL UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	2	79	20.00	174	2.00	67	04	25		80			X	X	BOTT		
CANADA BASIN	3	79	33.00	174	23.00	67	04	28		160			X	X	BOTT		
CANADA BASIN	4	79	32.00	174	18.00	67	04	29		230			X	X	BOTT		
CANADA BASIN	5	79	40.00	173	46.00	67	05	01		300			X	X	BOTT		
CANADA BASIN	6	79	57.00	174	24.00	67	05	03		300			X	X	BOTT		
CANADA BASIN	7	79	38.00	172	14.00	67	05	07		300			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 67-0024
YEAR:1967 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CHUKCHI PLAIN		78	06.	174	50.	67	01	08		5	1496			X			
CHUKCHI PLAIN		78	05.	174	46.	67	01	09		5	1557			X			
CHUKCHI PLAIN		78	08.	174	52.	67	01	10		5	1319			X			
CHUKCHI PLAIN		78	08.	174	58.	67	01	11		5	1340			X			
CHUKCHI PLAIN		78	06.	174	45.	67	01	12		5	1392			X			
CHUKCHI PLAIN		78	06.	174	21.	67	01	14		5	1868			X			
CHUKCHI PLAIN		78	08.	174	23.	67	01	15		5	1851			X			
CHUKCHI PLAIN		78	16.	175	40.	67	01	19		5	1282			X			
CHUKCHI PLAIN		78	23.	175	50.	67	01	20		5	1172			X			
CHUKCHI PLAIN		78	34.	175	52.	67	01	21		5	1416			X			

BOTTLE/CTD DATA SET NUMBER: 68-0015
YEAR:1968 VESSEL/AGENCY: CAN. ICE STNS

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
NANSEN SOUND	1	81 26.50	92 43.00	68	5	11	17	60			X	X	BOTT	
NANSEN SOUND	2	81 26.50	92 43.00	68	5	13	18	450			X	X	BOTT	
NANSEN SOUND	3	31 26.50	92 43.00	68	5	22	5	470			X	X	BOTT	
NANSEN SOUND	4	81 26.50	92 43.00	68	5	26	18	470			X	X	BOTT	
NANSEN SOUND	5	81 26.50	92 43.00	68	5	28	13	470			X	X	BOTT	
NANSEN SOUND	6	81 26.50	92 43.00	68	5	29	20	400			X	X	BOTT	
NANSEN SOUND	7	81 26.50	92 43.00	68	6	1	14	470			X	X	BOTT	
NANSEN SOUND	8	81 26.50	92 43.00	68	6	2	14	470			X	X	BOTT	
NANSEN SOUND	9	81 26.50	92 43.00	68	6	3	14	470			X	X	BOTT	
NANSEN SOUND	10	81 26.50	92 43.00	68	6	4	14	470			X	X	BOTT	
NANSEN SOUND	11	81 26.50	92 43.00	68	6	4	19	59			X	X	BOTT	
NANSEN SOUND	12	81 26.50	92 43.00	68	6	5	14	470			X	X	BOTT	
NANSEN SOUND	13	81 26.50	92 43.00	68	6	6	14	470			X	X	BOTT	
NANSEN SOUND	14	81 26.50	92 43.00	68	6	7	14	470			X	X	BOTT	
NANSEN SOUND	15	81 26.50	92 43.00	68	6	7	19	60			X	X	BOTT	
NANSEN SOUND	16	81 26.50	92 43.00	68	6	8	14	470			X	X	BOTT	
NANSEN SOUND	17	81 26.50	92 43.00	68	6	9	14	470			X	X	BOTT	
NANSEN SOUND	18	81 26.50	92 43.00	68	6	10	14	470			X	X	BOTT	
NANSEN SOUND	19	81 26.50	92 43.00	68	6	11	14	470			X	X	BOTT	
NANSEN SOUND	20	81 25.50	92 43.00	68	6	12	14	470			X	X	BOTT	
NANSEN SOUND	21	81 26.50	92 43.00	68	6	15	14	470			X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 68-0016
YEAR:1968 VESSEL/AGENCY: NRC (HALIFAX)

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
DISRAELI FJORD	1	82 52.80	73 31.30	68	5	8	20	60			X	X	BOTT	
DISRAELI FJORD	2	82 53.00	73 37.00	68	6	24	14	350	352		X	X	BOTT	
DISRAELI FJORD	3	82 53.00	73 37.00	68	7	1	14	350	352		X	X	BOTT	
DISRAELI FJORD	4	82 53.00	73 37.00	68	7	8	14	350	352		X	X	BOTT	
DISRAELI FJORD	5	82 53.00	73 57.00	68	7	15	14	340	352		X	X	BOTT	
DISRAELI FJORD	6	82 53.00	73 37.00	68	7	22	14	345	352		X	X	BOTT	
DISRAFLI FJORD	7	82 53.00	73 37.00	68	7	29	14	345	352		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 68-0017
YEAR:1968 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF	1	71 18.00	153 12.00	68	8	19	15	35	48		X	X	BOTT	
	1	74 20.00	165 15.00	68	8	13	8	260	300		X	X	BOTT	
	2	71 4.00	149 48.00	68	8	19	21	20	33		X	X	BOTT	
	2	75 17.00	167 5.00	68	8	14	3	180	205		X	X	BOTT	
ALASKAN SHELF	3	70 42.00	146 46.00	68	8	20	4	20	37		X	X	BOTT	
	3	75 44.50	167 0.00	68	8	14	8	220	260		X	X	BOTT	
ALASKAN SHELF	4	70 26.00	143 25.00	68	8	20	12	35	67		X	X	BOTT	
ALASKAN SHELF	5	70 25.00	144 55.00	68	8	20	15	20	35		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 68-0019
YEAR:1968 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	82 15.80	157 28.00	68	3	29	18	2000	3802		X	X	BOTT		
CANADA BASIN	2	82 15.80	157 28.00	68	3	29	18	3750	3802		X	X	BOTT		
CANADA BASIN	3	82 12.20	157 41.00	68	4	6	18	550	3811		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0020
YEAR:1968 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	83 11.20	153 59.00	68	6	23	17	60	3090		X	X	BOTT		
CANADA BASIN	2	83 11.20	153 59.00	68	6	23	19	150	3090		X	X	BOTT		
CANADA BASIN	3	83 11.90	154 0.00	68	6	23	23	400	3090		X	X	BOTT		
CANADA BASIN	4	83 13.00	154 2.50	68	6	24	7	3070	3090		X	X	BOTT		
CANADA BASIN	5	83 8.60	150 42.00	68	7	6	16	60	3070		X	X	BOTT		
CANADA BASIN	6	83 9.10	150 41.20	68	7	6	18	150	3070		X	X	BOTT		
CANADA BASIN	7	83 10.00	150 40.00	68	7	6	20	400	3070		X	X	BOTT		
CANADA BASIN	8	83 11.50	150 38.30	68	7	7		3000	3070		X	X	BOTT		
CANADA BASIN	9	83 37.90	148 55.30	68	7	13	18	60	2678		X	X	BOTT		
CANADA BASIN	10	83 38.00	148 55.00	68	7	13	20	150	2678		X	X	BOTT		
CANADA BASIN	11	83 38.20	148 54.50	68	7	13	22	400	2678		X	X	BOTT		
CANADA BASIN	12	83 38.60	148 53.30	68	7	14	6	2000	2678		X	X	BOTT		
CANADA BASIN	13	83 47.10	148 52.80	68	7	20	18	60	2660		X	X	BOTT		
CANADA BASIN	14	83 47.20	148 53.10	68	7	20	20	150	2660		X	X	BOTT		
CANADA BASIN	15	83 47.30	148 53.20	68	7	20	22	400	2660		X	X	BOTT		
CANADA BASIN	16	83 47.40	148 53.80	68	7	21	5	2000	2660		X	X	BOTT		
CANADA BASIN	17	83 54.60	148 9.50	68	7	28	10	60	2607		X	X	BOTT		
CANADA BASIN	18	83 54.60	148 7.50	68	7	28	12	150	2607		X	X	BOTT		
CANADA BASIN	19	83 54.20	148 5.10	68	7	28	14	400	2607		X	X	BOTT		
CANADA BASIN	20	83 54.00	148 1.00	68	7	28	19	2000	2607		X	X	BOTT		
CANADA BASIN	21	83 34.00	148 3.90	68	8	3	10	60	2406		X	X	BOTT		
CANADA BASIN	22	83 33.70	148 4.90	68	8	3	12	150	2406		X	X	BOTT		
CANADA BASIN	23	83 33.60	148 5.70	68	8	3	14	400	2406		X	X	BOTT		
CANADA BASIN	24	83 33.30	148 7.40	68	8	3	18	2000	2406		X	X	BOTT		
CANADA BASIN	25	83 40.40	146 29.00	68	8	10	10	60	2885		X	X	BOTT		
CANADA BASIN	26	83 40.60	146 28.10	68	8	10	11	150	2885		X	X	BOTT		
CANADA BASIN	27	83 40.80	146 27.50	68	8	10	13	400	2885		X	X	BOTT		
CANADA BASIN	28	83 41.00	146 26.50	68	8	10	18	2500	2885		X	X	BOTT		
CANADA BASIN	29	83 56.10	144 5.00	68	8	19	4	60	2238		X	X	BOTT		
CANADA BASIN	30	83 56.30	144 4.30	68	8	19	6	175	2238		X	X	BOTT		
CANADA BASIN	31	83 58.00	144 0.00	68	8	20	12	400	2205		X	X	BOTT		
CANADA BASIN	32	83 58.50	143 59.50	68	8	20	14	2000	2205		X	X	BOTT		
CANADA BASIN	33	84 12.70	144 32.50	68	8	24	11	60	2376		X	X	BOTT		
CANADA BASIN	34	84 13.50	144 29.90	68	8	24	13	150	2376		X	X	BOTT		
CANADA BASIN	35	84 13.90	144 28.00	68	8	24	16	400	2376		X	X	BOTT		
CANADA BASIN	36	84 18.30	143 43.50	68	8	31	22	60	2305		X	X	BOTT		
CANADA BASIN	37	84 18.40	143 42.90	68	9	1	[illegible]	150	2305		X	X	BOTT		
CANADA BASIN	38	84 18.90	143 42.90	68	9	1	4	400	2305		X	X	BOTT		
CANADA BASIN	39	84 19.80	143 42.80	68	9	1	7	1500	2305		X	X	BOTT		
	40	84 35.40	144 36.00	68	9	8	4	60	2264		X	X	BOTT		
	41	84 35.30	144 36.80	68	9	8	6	150	2264		X	X	BOTT		
	42	84 35.10	144 37.20	68	9	8	8	400	2264		X	X	BOTT		
	43	84 34.80	144 39.00	68	9	8	11	2000	2264		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0021
YEAR:1968 VESSEL/AGENCY: SOVIET ICE STATION NP-16

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
MEND/ALPHA RIDGE		83 15.1	146 27.9	70 06 16	~2900							
MEND/ALPHA RIDGE		85 48.05	133 00.9	70 09 17	~1600							

BOTTLE/CTD DATA SET NUMBER: 68-0023
YEAR:1968 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	25	71 36.00	159 10.00	63 8 2 4	35	55		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 68-0031
YEAR:1968 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW	C1	71 21.68	156 41.3	68 12 *			X			BOTT		
BARROW	C1	71 21.68	156 41.3	69 04			X			BOTT		
BARROW	C1	71 21.68	156 41.3	69 06			X			BOTT		
BARROW	C1	71 21.68	156 41.3	69 08			X			BOTT		
ELSON LAGOON	L	71 20.69	156 32.3	68 12			X			BOTT		
BARROW	P1	71 24.0	156 18.3	69 06			X			BOTT		
BARROW	P1	71 24.0	156 18.3	69 08			X			BOTT		
BARROW	B2	71 23.7	156 23.9	69 06			X			BOTT		
BARROW	B1	71 22.2	156 21.1	69 04			X			BOTT		
BARROW	EP	71 21.4	156 21.1	69 06			X			BOTT		
BARROW	NASA	71 20.9	156 33.5	68 12			X			BOTT		

* Exact dates not specified.

BOTTLE/CTD DATA SET NUMBER: 69-0001
YEAR:1969 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	21	72 18.00	156 30.00	69 8 3 20	190	214		X	X	BOTT		
	22	72 51.00	156 11.00	69 8 4 11	1000	2477		X	X	BOTT		
CANADA BASIN	23	72 36.00	152 18.00	69 8 5 15	1000	3477		X	X	BOTT		
CANADA BASIN	24	72 10.00	148 51.00	69 8 6 11	1000	3624		X	X	BOTT		
CANADA BASIN	25	72 1.00	145 4.00	69 8 7 5	1000	3458		X	X	BOTT		
CANADA BASIN	26	72 0.00	141 41.00	69 8 7 18	935	2983		X	X	BOTT		
	31	70 38.50	142 10.00	69 8 11 21	750	920		X	X	BOTT		
	32	70 36.00	142 0.00	69 8 12 10	500	539		X	X	BOTT		
ALASKAN SHELF	33	70 42.00	145 0.00	69 8 13 15	65	72		X	X	BOTT		
ALASKAN SHELF	34	70 50.00	148 28.00	69 8 14 16	29	36		X	X	BOTT		
	35	71 16.00	151 19.50	69 8 15 5	39	44		X	X	BOTT		
ALASKAN SHELF	36	71 43.50	156 13.00	69 8 16 22	66	91		X	X	BOTT		

ALASKAN SHELF	37	71	39.00	155	51.00	69	8	17	10	125		X	X	BOTT	
ALASKAN SHELF	38	71	36.00	154	39.00	69	8	17	17	25	29	X	X	BOTT	
ALASKAN SHELF	39	71	27.00	153	39.00	69	8	17	23	45	50	X	X	BOTT	
ALASKAN SHELF	40	71	24.00	153	0.00	69	8	18	5	50	70	X	X	BOTT	
	41	71	19.00	152	21.00	69	8	18	8	35	50	X	X	BOTT	
ALASKAN SHELF	42	71	13.50	151	18.00	69	8	18	14	35	42	X	X	BOTT	
ALASKAN SHELF	43	71	8.00	150	30.00	69	8	18	19	30	33	X	X	BOTT	
ALASKAN SHELF	44	71	5.00	150	0.00	69	8	18	19	20	26	X	X	BOTT	
	45	71	5.00	149	30.00	69	8	19	1	20	30	X	X	BOTT	
	46	71	5.00	148	55.00	69	8	19	4	35	41	X	X	BOTT	
CANADA BASIN	47	71	20.00	150	0.00	69	8	19	8	700	1800	X	X	BOTT	
	48	71	20.00	150	3.00	69	8	19	14	700	1600	X	X	BOTT	
	49	71	20.00	150	30.00	69	8	19	18	400	530	X	X	BOTT	
	50	71	20.50	151	20.00	69	8	20		50	57	X	X	BOTT	
	51	71	35.00	152	0.00	69	8	20	6	400	545	X	X	BOTT	
	52	71	41.00	152	20.00	69	8	20	8	200	240	X	X	BOTT	
	53	71	51.50	152	41.00	69	8	20	13	700	1300	X	X	BOTT	
	54	71	50.00	153	20.00	69	8	20	19	200	235	X	X	BOTT	
	55	71	51.00	154	0.00	69	8	20	20	100	173	X	X	BOTT	
	56	71	50.00	155	0.00	69	8	21	1	100	234	X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 69-0021
YEAR:1969 VESSEL/AGENCY: ICE STNS, NRC (HALIFAX)

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DISRAELI FJORD	9	82	53.00	72	37.00	69	5	16	12	60		X	X		BOTT		
M'CLINTOCK INLET	10	83	0.00	75	27.00	69	5	17	19	60	60	X	X		BOTT		
M'CLINTOCK INLET	11	83	0.00	75	27.00	69	5	17	20	57	59	X	X		BOTT		
M'CLINTOCK INLET	12	83	0.00	75	27.00	69	5	19	16	57	59	X	X		BOTT		
DISRAELI FJORD	13	82	53.00	72	37.00	69	5	20	16	400		X	X		BOTT		
	14	82	51.50	78	10.00	69	5	21	19	57	57	X	X		BOTT		
	15	82	38.00	79	0.00	69	5	22	15	30	34	X	X		BOTT		
	16	82	57.00	67	45.00	69	5	23	14	60	64	X	X		BOTT		
MARKHAM INLET	17	82	37.50	68	57.00	69	5	23	19	40	42	X	X		BOTT		
MARKHAM INLET	18	82	37.50	68	57.00	69	5	23	20	40	42	X	X		BOTT		

BOTTLE/CTD DATA SET NUMBER: 69-0022
YEAR:1969 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
HARRISON BAY	HB1	70	27.7	150	10.0	69	09	04					X				
HARRISON BAY	HB2	70	30.4	150	10.0	69	09	04					X				
HARRISON BAY	HB3	70	33.1	150	07.0	69	09	04					X				
HARRISON BAY	HB4	70	32.5	150	09.5	69	09	04					X				
HARRISON BAY	HB5	70	29.6	150	04.5	69	09	04					X				
HARRISON BAY	HB6	70	31.0	150	04.8	69	09	C4					X				
HARRISON BAY	HB1	70	32.5	150	09.5	70	03	10					X				
HARRISON BAY	HB2	70	31.0	150	04.8	70	03	10					X				
HARRISON BAY	BS1	70	35.2	150	09.5	70	03	10					X				

BOTTLE/CTD DATA SET NUMBER: 69-0024
YEAR:1969 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE	1	84 57.10	124 38.20	69	4	29	2	130	1864		X	X	BOTT		
ALPHA RIDGE	2	84 56.80	124 25.20	69	4	29	9	230	1902		X	X	BOTT		
ALPHA RIDGE	3	84 56.90	124 41.90	69	4	30	9	700	1904		X	X	BOTT		
ALPHA RIDGE	4	84 58.00	124 59.60	69	5	1	7	1675	1745		X	X	BOTT		
ALPHA RIDGE	5	84 58.00	124 59.60	69	5	1	9	170	1745		X	X	BOTT		
ALPHA RIDGE	6	84 58.70	124 51.60	69	5	1	10	45	1580		X	X	BOTT		
ALPHA RIDGE	7	84 57.40	125 1.60	69	5	3	16	400	1831		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 69-0025
YEAR:1969 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	84 29.50	126 5.30	69	6	21	18	55	2700		X	X	BOTT		
CANADA BASIN	2	84 29.50	126 5.30	69	6	21	20	125	2700		X	X	BOTT		
CANADA BASIN	3	84 29.50	126 5.30	69	6	21	21	375	2700		X	X	BOTT		
CANADA BASIN	4	84 29.50	126 5.30	69	6	21	23	2000	2700		X	X	BOTT		
CANADA BASIN	5	84 17.60	124 30.40	69	6	28	18	55	2680		X	X	BOTT		
CANADA BASIN	6	84 17.60	124 30.40	69	6	28	20	125	2680		X	X	BOTT		
CANADA BASIN	7	84 17.60	124 30.40	69	6	28	21	400	2680		X	X	BOTT		
CANADA BASIN	8	84 23.10	123 44.40	69	7	5	18	55	2552		X	X	BOTT		
CANADA BASIN	9	84 23.10	123 44.40	69	7	5	20	125	2552		X	X	BOTT		
CANADA BASIN	10	84 23.10	123 44.40	69	7	5	22	400	2552		X	X	BOTT		
ALPHA RIDGE	11	84 32.00	124 30.90	69	7	12	17	55	2184		X	X	BOTT		
ALPHA RIDGE	12	84 32.00	124 30.90	69	7	12	20	105	2184		X	X	BOTT		
ALPHA RIDGE	13	84 32.00	124 30.90	69	7	12	22	155	2184		X	X	BOTT		
ALPHA RIDGE	14	84 48.30	123 10.80	69	7	18	4	275	2298		X	X	BOTT		
ALPHA RIDGE	15	84 48.30	123 10.80	69	7	18	5	275	2298		X	X	BOTT		
ALPHA RIDGE	16	84 48.30	123 10.80	69	7	18	6	275	2298		X	X	BOTT		
ALPHA RIDGE	17	84 48.30	123 10.80	69	7	18	7	275			X	X	BOTT		
ALPHA RIDGE	18	84 48.30	123 10.80	69	7	18	8	175			X	X	BOTT		
ALPHA RIDGE	19	84 48.30	123 10.80	69	7	18	9	275			X	X	BOTT		
ALPHA RIDGE	20	84 48.30	123 10.80	69	7	18	10	275			X	X	BOTT		
ALPHA RIDGE	21	84 48.30	123 10.80	69	7	18	11	275			X	X	BOTT		
ALPHA RIDGE	22	84 48.30	123 10.80	69	7	18	12	275			X	X	BOTT		
ALPHA RIDGE	23	84 48.30	123 10.80	69	7	18	13	275			X	X	BOTT		
ALPHA RIDGE	24	84 48.30	123 10.80	69	7	18	14	275			X	X	BOTT		
ALPHA RIDGE	25	84 48.30	123 10.80	69	7	18	15	275			X	X	BOTT		
ALPHA RIDGE	26	84 48.30	123 10.80	69	7	18	16	275			X	X	BOTT		
ALPHA RIDGE	27	84 48.30	123 10.80	69	7	18	18	273			X	X	BOTT		
ALPHA RIDGE	28	84 48.30	123 10.80	69	7	18	19	275			X	X	BOTT		
ALPHA RIDGE	29	84 48.30	123 10.80	69	7	18	20	275			X	X	BOTT		
ALPHA RIDGE	30	84 48.30	123 10.80	69	7	18	22	274			X	X	BOTT		
ALPHA RIDGE	31	84 48.30	123 10.80	69	7	18	23	275			X	X	BOTT		
ALPHA RIDGE	32	84 48.30	123 10.80	69	7	19		274			X	X	BOTT		
ALPHA RIDGE	33	84 48.30	123 10.80	69	7	19	1	275			X	X	BOTT		
ALPHA RIDGE	34	84 47.30	123 0.00	69	7	19	3	275			X	X	BOTT		
ALPHA RIDGE	35	84 47.20	123 59.00	69	7	19	4	275			X	X	BOTT		
ALPHA RIDGE	36	84 46.90	123 54.90	69	7	19	5	275			X	X	BOTT		
ALPHA RIDGE	37	84 46.90	123 54.90	69	7	19	6	275			X	X	BOTT		
ALPHA RIDGE	38	84 46.90	123 54.90	69	7	19	7	275	2338		X	X	BOTT		
ALPHA RIDGE	39	84 46.90	123 54.90	69	7	19	8	275	2338		X	X	BOTT		
ALPHA RIDGE	40	84 48.00	123 57.00	69	7	19	8	275			X	X	BOTT		
ALPHA RIDGE	41	84 48.00	123 57.00	69	7	19	9	275			X	X	BOTT		
ALPHA RIDGE	42	84 48.00	123 57.00	69	7	19	10	275			X	X	BOTT		
ALPHA RIDGE	43	84 48.00	123 57.00	69	7	19	11	275			X	X	BOTT		
ALPHA RIDGE	44	84 48.00	123 57.00	69	7	19	12	275			X	X	BOTT		
ALPHA RIDGE	45	84 48.00	123 57.00	69	7	19	13	275			X	X	BOTT		
ALPHA RIDGE	46	84 48.00	123 57.00	69	7	19	15	275			X	X	BOTT		
ALPHA RIDGE	47	84 48.00	123 57.00	69	7	19	16	274			X	X	BOTT		
ALPHA RIDGE	48	84 48.00	123 57.00	69	7	19	17	274			X	X	BOTT		
ALPHA RIDGE	49	84 48.00	123 57.00	69	7	19	18	274			X	X	BOTT		

ALPHA RIDGE	50	84	48.00	123	57.00	69	7	19	19	274		X	X	BOTT
ALPHA RIDGE	51	84	48.00	123	57.00	69	7	19	21	275		X	X	BOTT
ALPHA RIDGE	52	84	48.00	123	57.00	69	7	19	22	275		X	X	BOTT
ALPHA RIDGE	53	84	48.00	123	57.00	69	7	19	23	59		X	X	BOTT
ALPHA RIDGE	54	84	48.00	123	57.00	69	7	20		275		X	X	BOTT
ALPHA RIDGE	55	84	49.00	124	10.00	69	7	20	1	275		X	X	BOTT
ALPHA RIDGE	56	84	49.00	124	10.00	69	7	20	2	275		X	X	BOTT
ALPHA RIDGE	57	84	49.00	124	10.00	69	7	20	3	275		X	X	BOTT
ALPHA RIDGE	58	84	49.00	124	10.00	69	7	20	4	275		X	X	BOTT
ALPHA RIDGE	59	84	49.00	124	10.00	69	7	20	5	275		X	X	BOTT
ALPHA RIDGE	60	84	50.50	124	24.20	69	7	20	6	275		X	X	BOTT
ALPHA RIDGE	61	84	50.50	124	24.20	69	7	20	6	275		X	X	BOTT
ALPHA RIDGE	62	85	4.60	128	0.20	69	7	26	16	55	2230	X	X	BOTT
ALPHA RIDGE	63	85	4.60	128	0.20	69	7	26	18	125	2230	X	X	BOTT
ALPHA RIDGE	64	85	4.60	128	0.20	69	7	26	20	399	2230	X	X	BOTT
ALPHA RIDGE	65	85	4.60	128	0.20	69	7	26	23	2212	2230	X	X	BOTT
ALPHA RIDGE	66	85	41.90	131	15.00	69	8	2	18	55	2185	X	X	BOTT
ALPHA RIDGE	67	85	41.90	131	15.00	69	8	2	21	125	2185	X	X	BOTT
ALPHA RIDGE	68	85	41.90	131	15.00	69	8	2	22	498	2185	X	X	BOTT
ALPHA RIDGE	69	86	5.80	131	56.50	69	8	9	18	55	2314	X	X	BOTT
ALPHA RIDGE	70	86	5.80	131	56.50	69	8	9	20	125	2314	X	X	BOTT
ALPHA RIDGE	71	86	5.80	131	56.50	69	8	9	22	498	2314	X	X	BOTT
ALPHA RIDGE	72	86	2.10	134	14.40	69	8	16	18	55	2150	X	X	BOTT
ALPHA RIDGE	73	86	2.10	134	14.40	69	8	16	20	125	2150	X	X	BOTT
ALPHA RIDGE	74	86	2.10	134	14.40	69	8	16	21	500	2150	X	X	BOTT
ALPHA RIDGE	75	86	0.00	134	0.00	69	8	22	2	63	2271	X	X	BOTT
ALPHA RIDGE	76	86	0.00	134	0.00	69	8	22	4	275	2271	X	X	BOTT
ALPHA RIDGE	77	86	0.00	134	0.00	69	8	22	5	275		X	X	BOTT
ALPHA RIDGE	78	86	0.00	134	0.00	69	8	22	6	275		X	X	BOTT
ALPHA RIDGE	79	86	0.00	134	0.00	69	8	22	7	275		X	X	BOTT
ALPHA RIDGE	80	86	0.00	134	0.00	69	8	22	8	275		X	X	BOTT
ALPHA RIDGE	81	86	0.00	134	0.00	69	8	22	9	275		X	X	BOTT
ALPHA RIDGE	82	86	0.00	134	0.00	69	8	22	10	275		X	X	BOTT
ALPHA RIDGE	83	86	0.00	134	0.00	69	8	22	11	274		X	X	BOTT
ALPHA RIDGE	84	86	0.00	134	0.00	69	8	22	12	275		X	X	BOTT
ALPHA RIDGE	85	86	0.00	134	0.00	69	8	22	13	275		X	X	BOTT
ALPHA RIDGE	86	86	0.00	134	0.00	69	8	22	14	275		X	X	BOTT
ALPHA RIDGE	87	86	0.00	134	0.00	69	8	22	15	274		X	X	BOTT
ALPHA RIDGE	88	86	0.00	134	0.00	69	8	22	16	53		X	X	BOTT
ALPHA RIDGE	89	86	0.00	134	0.00	69	8	22	18	275		X	X	BOTT
ALPHA RIDGE	90	86	0.00	134	0.00	69	8	22	19	275		X	X	BOTT
ALPHA RIDGE	91	86	0.00	134	0.00	69	8	22	20	273		X	X	BOTT
ALPHA RIDGE	92	86	0.00	134	0.00	69	8	22	21	275		X	X	BOTT
ALPHA RIDGE	93	86	0.00	134	0.00	69	8	22	22	175		X	X	BOTT
ALPHA RIDGE	94	86	0.00	134	0.00	69	8	22	23	275		X	X	BOTT
ALPHA RIDGE	95	86	0.00	134	0.00	69	8	23		275		X	X	BOTT
ALPHA RIDGE	96	86	0.00	134	0.00	69	8	23	1	275		X	X	BOTT
ALPHA RIDGE	97	86	0.00	134	0.00	69	8	23	3	275		X	X	BOTT
ALPHA RIDGE	98	86	0.00	134	0.00	69	8	23	4	275		X	X	BOTT
ALPHA RIDGE	99	86	0.00	134	0.00	69	8	23	4	275		X	X	BOTT
ALPHA RIDGE	100	86	0.00	134	0.00	69	8	23	5	275		X	X	BOTT
ALPHA RIDGE	101	86	0.00	134	0.00	69	8	23	6	275		X	X	BOTT
ALPHA RIDGE	102	86	0.00	134	0.00	69	8	23	7	275		X	X	BOTT
ALPHA RIDGE	103	86	0.00	134	0.00	69	8	23	8	275		X	X	BOTT
ALPHA RIDGE	104	86	0.00	134	0.00	69	8	23	9	275		X	X	BOTT
ALPHA RIDGE	105	86	0.00	134	0.00	69	8	23	10	275		X	X	BOTT
ALPHA RIDGE	106	86	0.00	134	0.00	69	8	23	11	275		X	X	BOTT
ALPHA RIDGE	107	86	0.00	134	0.00	69	8	23	12	275		X	X	BOTT
ALPHA RIDGE	108	86	0.00	134	0.00	69	8	23	13	274		X	X	BOTT
ALPHA RIDGE	109	86	0.00	134	0.00	69	8	23	14	275		X	X	BOTT
ALPHA RIDGE	110	86	0.00	134	0.00	69	8	23	15	275		X	X	BOTT
ALPHA RIDGE	111	86	0.00	134	0.00	69	8	23	16	275		X	X	BOTT
ALPHA RIDGE	112	86	0.00	134	0.00	69	8	23	17	275		X	X	BOTT
ALPHA RIDGE	113	86	0.00	134	0.00	69	8	23	18	275		X	X	BOTT
ALPHA RIDGE	114	86	0.00	134	0.00	69	8	23	19	275		X	X	BOTT
ALPHA RIDGE	115	86	0.00	134	0.00	69	8	23	20	275		X	X	BOTT
ALPHA RIDGE	116	86	0.00	134	0.00	69	8	23	21	274		X	X	BOTT
ALPHA RIDGE	117	86	0.00	134	0.00	69	8	23	22	275		X	X	BOTT
ALPHA RIDGE	118	86	0.00	134	0.00	69	8	23	23	275		X	X	BOTT
ALPHA RIDGE	119	86	0.00	134	0.00	69	8	24		275		X	X	BOTT
ALPHA RIDGE	120	86	0.00	134	0.00	69	8	24	2	273		X	X	BOTT
ALPHA RIDGE	121	86	0.00	134	0.00	69	8	24	3	275		X	X	BOTT
ALPHA RIDGE	122	86	0.00	134	0.00	69	8	24	3	275		X	X	BOTT
ALPHA RIDGE	123	86	0.00	134	0.00	69	8	24	4	275		X	X	BOTT
ALPHA RIDGE	124	86	0.00	134	0.00	69	8	24	5	275		X	X	BOTT
ALPHA RIDGE	125	86	0.00	134	0.00	69	8	24	6	275		X	X	BOTT
ALPHA RIDGE	126	86	0.00	134	0.00	69	8	24	7	57		X	X	BOTT
ALPHA RIDGE	127	86	6.00	129	57.00	69	[illegible]	31	20	55	1895	X	X	BOTT
ALPHA RIDGE	128	86	6.00	129	57.00	69	[illegible]	[illegible]	21	125	1895	X	X	BOTT
ALPHA RIDGE	129	86	6.00	129	57.00	69	[illegible]	[illegible]	[illegible]	450	1895	X	X	BOTT
ALPHA RIDGE	130	86	6.00	129	57.00	69	[illegible]	[illegible]	[illegible]	1894	1895	X	X	BOTT
ALPHA RIDGE	131	86	3.00	129	59.00	69	[illegible]	[illegible]	[illegible]	52	1581	X	X	BOTT
ALPHA RIDGE	132	86	3.00	129	59.00	69	[illegible]	[illegible]	[illegible]	53	1581	X	X	BOTT

ALPHA RIDGE	133	86	0.00	130	14.00	69	9	4	4	54	1581	X	X	BOTT
ALPHA RIDGE	134	86	3.00	129	0.00	69	9	5	3	54		X	X	BOTT
ALPHA RIDGE	135	86	5.00	126	20.00	69	9	6	3	54	2158	X	X	BOTT
ALPHA RIDGE	136	86	5.00	124	0.00	69	9	7	4	57	2107	X	X	BOTT
ALPHA RIDGE	137	86	5.00	123	45.00	69	9	7	20	55	2107	X	X	BOTT
ALPHA RIDGE	138	86	5.00	123	45.00	69	9	7	21	125	2107	X	X	BOTT
ALPHA RIDGE	139	86	5.00	123	45.00	69	9	7	23	598	2107	X	X	BOTT
ALPHA RIDGE	140	86	5.00	123	45.00	69	9	8	1	58		X	X	BOTT
ALPHA RIDGE	141	86	5.00	123	45.00	69	9	9	3	56		X	X	BOTT
ALPHA RIDGE	142	86	5.00	123	45.00	69	9	10	3	58		X	X	BOTT
ALPHA RIDGE	143	85	59.00	123	0.00	69	9	13	3	56	1930	X	X	BOTT
ALPHA RIDGE	144	85	59.00	123	0.00	69	9	13	20	55	2430	X	X	BOTT
ALPHA RIDGE	145	85	59.00	122	50.00	69	9	13	21	125		X	X	BOTT
ALPHA RIDGE	146	85	59.00	122	50.00	69	9	13	22	498		X	X	BOTT
ALPHA RIDGE	147	85	59.00	122	50.00	69	9	14	3	2395		X	X	BOTT
ALPHA RIDGE	148	85	59.00	122	50.00	69	9	14		56		X	X	BOTT
ALPHA RIDGE	149	85	49.00	120	0.00	69	9	26	3	55	2420	X	X	BOTT
ALPHA RIDGE	150	85	49.00	120	0.00	69	9	26	4	125		X	X	BOTT
ALPHA RIDGE	151	85	49.00	120	0.00	69	9	26	5	500		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 69-0027
YEAR:1969 VESSEL/AGENCY: T-3 ICE ISLAND,OREGON STATE UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE		84 38.2	128 21.6	69 03 19					X	XBT		

BOTTLE/CTD DATA SET NUMBER: 69-0028
YEAR:1969 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN		84 0.00	126 0.00	69 11			X		X	CTD		
CANADA BASIN		84 0.00	126 0.00	69 11					X	XBT		

BOTTLE/CTD DATA SET NUMBER: 70-0021
YEAR:1970 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON	BS1	70 35.00	150 8.00	70 08 *								
SIMPSON LAGOON	BS5	70 31.00	149 8.00	70 08								
SIMPSON LAGOON	SL1	70 33.00	149 53.00	70 08								
SIMPSON LAGOON	SL2	70 33.00	149 53.00	70 08								
SIMPSON LAGOON	SL3	70 32.00	149 52.00	70 08								
SIMPSON LAGOON	SL4	70 31.00	149 52.00	70 08								
SIMPSON LAGOON	SL5	70 31.00	149 49.00	70 08								
SIMPSON LAGOON	SL6	70 31.00	149 47.00	70 08								
SIMPSON LAGOON	SL7	70 32.00	149 44.00	70 08								
SIMPSON LAGOON	SL8	70 33.00	149 41.00	70 08								
SIMPSON LAGOON	SL9	70 33.00	149 39.00	70 08								
SIMPSON LAGOON	BS21	70 30.00	149 9.00	70 08								
SIMPSON LAGOON	BS22	70 30.00	149 9.00	70 08								
SIMPSON LAGOON	BS23	70 31.00	149 9.00	70 08								
SIMPSON LAGOON	CDE7	70 27.00	150 14.00	70 08								
SIMPSON LAGOON	HBE1	70 33.00	150 9.00	70 08								

* Three cruises: May 23-30, Aug.8-Sept.1,& Dec.3-5. Not all stations were occupied each time.

SIMPSON LAGOON	HBE2	70	32.00	150	3.00	70	08
SIMPSON LAGOON	HBE3	70	32.00	150	6.00	70	08
SIMPSON LAGOON	HBE4	70	31.00	150	1.00	70	08
SIMPSON LAGOON	HBE5	70	31.00	149	58.00	70	08
SIMPSON LAGOON	HBE6	70	31.00	149	56.00	70	08
SIMPSON LAGOON	HBE7	70	31.00	149	53.00	70	08
SIMPSON LAGOON	SL10	70	34.00	149	36.00	70	08
SIMPSON LAGOON	SL18	70	31.00	149	27.00	70	08
SIMPSON LAGOON	SL19	70	32.00	149	27.00	70	08
SIMPSON LAGOON	SL20	70	33.00	149	26.00	70	08
SIMPSON LAGOON	SL24	70	47.00	149	33.00	70	08
SIMPSON LAGOON	SL25	70	48.00	149	32.00	70	08
SIMPSON LAGOON	SL26	70	50.00	149	31.00	70	08
SIMPSON LAGOON	SL27	70	51.00	149	31.00	70	08
SIMPSON LAGOON	HBE26	70	26.00	150	6.00	70	08
SIMPSON LAGOON	HBE27	70	28.00	149	58.00	70	08
SIMPSON LAGOON	HBE28	70	33.00	150	0.00	70	08

BOTTLE/CTD DATA SET NUMBER: 70-0025
YEAR:1970 VESSEL/AGENCY: NRC?

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
QEI SHELF	1	81	9.50	94	27.00	70	5	18	16	2000	2250		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 70-0026
YEAR:1970 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE	1	84	58.90	109	10.00	70	1	17	22	500	1366		X	X	BOTT		
ALPHA RIDGE	2	85	2.30	109	4.00	70	1	25	10	500	1215		X	X	BOTT		
ALPHA RIDGE	3	84	39.30	112	23.00	70	1	31	21	500	1568		X	X	BOTT		
CANADA BASIN	4	84	27.60	112	57.00	70	2	7		1200	1364		X	X	BOTT		
CANADA BASIN	5	84	27.30	112	37.00	70	2	14	23	500	1440		X	X	BOTT		
CANADA BASIN	6	84	22.50	112	55.00	70	2	22		500			X	X	BOTT		
CANADA BASIN	7	84	23.70	112	31.00	70	3	1	6	500			X	X	BOTT		
CANADA BASIN	8	84	20.90	112	56.00	70	3	15	6	1400	1600		X	X	BOTT		
CANADA BASIN	9	84	8.20	114	13.00	70	3	22	17	220	2051		X	X	BOTT		
CANADA BASIN	10	84	18.00	112	40.00	70	3	28	22	225	1790		X	X	BOTT		
CANADA BASIN	11	84	17.20	112	35.00	70	4	4	11	220	1794		X	X	BOTT		
CANADA BASIN	12	84	23.60	112	6.00	70	4	14		700	1377		X	X	BOTT		
CANADA BASIN	13	84	20.90	111	58.00	70	4	19	8	200	1576		X	X	BOTT		
CANADA BASIN	14	84	16.50	112	29.00	70	4	26	9	200	1738		X	X	BOTT		
CANADA BASIN	15	84	8.60	112	55.00	70	5	3	9	200	1840		X	X	BOTT		
CANADA BASIN	16	84	7.00	112	38.00	70	5	10	16	1800	1852		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 70-0027
YEAR:1970 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	84	4.30	112	38.00	70	6	7	23	1750	1919		X	X	BOTT		
CANADA BASIN	2	84	3.10	112	52.00	70	6	14	23	500	1937		X	X	BOTT		
CANADA BASIN	3	84	7.20	111	54.00	70	6	21	23	100	1855		X	X	BOTT		
	4	84	20.30	109	13.00	70	6	28	21	500	1432		X	X	BOTT		

	5	84	24.80	107	10.00	70	7	4	23	1000	1284		X	X	BOTT
ALPHA RIDGE	6	84	47.40	106	28.00	70	7	12	22	500	1445		X	X	BOTT
ALPHA RIDGE	7	84	47.40	106	28.00	70	7	14	4	60	1445		X	X	BOTT
ALPHA RIDGE	8	84	42.90	106	27.00	70	7	19	22	100	1434		X	X	BOTT
ALPHA RIDGE	9	84	42.90	106	27.00	70	7	20	1	60	1434		X	X	BOTT
ALPHA RIDGE	10	84	33.30	106	13.00	70	7	26	22	500	1280		X	X	BOTT
ALPHA RIDGE	11	84	33.30	106	13.00	70	7	27	22	60	1280		X	X	BOTT
ALPHA RIDGE	12	84	40.20	105	56.00	70	8	2	22	1250	1457		X	X	BOTT
ALPHA RIDGE	13	84	40.20	105	56.00	70	8	3	7	60	1457		X	X	BOTT
	14	84	26.60	106	59.00	70	8	9	22	500	1266		X	X	BOTT
	15	84	26.60	106	59.00	70	8	11	4	60	1266		X	X	BOTT
	16	84	14.10	106	34.00	70	8	16	22	100	1643		X	X	BOTT
	17	84	14.10	106	34.00	70	8	17		60	1643		X	X	BOTT
	18	84	15.00	106	33.00	70	8	23	22	500	1610		X	X	BOTT
	19	84	15.00	106	33.00	70	8	24	23	60	1610		X	X	BOTT
	20	84	24.00	104	22.00	70	8	30	21	1250	1400		X	X	BOTT
	21	84	24.00	104	22.00	70	8	31	20	60	1400		X	X	BOTT
ALPHA RIDGE	22	84	31.30	102	42.00	70	9	7	22	500	1742		X	X	BOTT
ALPHA RIDGE	23	84	31.30	102	42.00	70	9	8	20	60	1742		X	X	BOTT
ALPHA RIDGE	24	84	50.50	99	38.00	70	9	13	22	100	1918		X	X	BOTT
ALPHA RIDGE	25	84	50.50	99	38.00	70	9	14		60	1918		X	X	BOTT
ALPHA RIDGE	26	84	49.30	99	41.00	70	9	20	21	500	1945		X	X	BOTT
ALPHA RIDGE	27	84	49.30	99	41.00	70	9	21	21	60	1945		X	X	BOTT
ALPHA RIDGE	28	84	31.80	98	36.00	70	9	27	21	1750	1945		X	X	BOTT
ALPHA RIDGE	29	84	31.80	98	36.00	70	9	28	22	60	1945		X	X	BOTT
ALPHA RIDGE	30	84	41.50	104	42.00	70	10	4	22	500	1550		X	X	BOTT
ALPHA RIDGE	31	84	40.00	104	28.00	70	10	11	23	100	1525		X	X	BOTT
ALPHA RIDGE	32	85	1.00	102	23.00	70	10	19	1	500	1459		X	X	BOTT
ALPHA RIDGE	33	85	1.00	102	23.00	70	10	19	22	60	1459		X	X	BOTT
ALPHA RIDGE	34	84	59.40	100	55.00	70	10	25	22	60	1999		X	X	BOTT
ALPHA RIDGE	35	85	4.10	98	31.00	70	10	30	23	60	2103		X	X	BOTT
ALPHA RIDGE	36	85	4.10	98	31.00	70	10	31	23	80	1733		X	X	BOTT
ALPHA RIDGE	37	85	5.60	98	40.00	70	11	1		400	1877		X	X	BOTT
ALPHA RIDGE	38	85	5.60	98	40.00	70	11	1	23	1500	1560		X	X	BOTT
ALPHA RIDGE	39	85	9.00	99	12.00	70	11	8	2	60	1445		X	X	BOTT
ALPHA RIDGE	40	85	5.30	99	17.00	70	11	15		60	2094		X	X	BOTT
ALPHA RIDGE	41	85	15.30	98	48.00	70	11	24		60	1310		X	X	BOTT
ALPHA RIDGE	42	85	19.50	97	39.80	70	11	29	5	60	1288		X	X	BOTT
ALPHA RIDGE	43	85	15.90	97	52.40	70	11	30	1	80	1293		X	X	BOTT
ALPHA RIDGE	44	85	15.90	97	52.40	70	12	1	1	400	1496		X	X	BOTT
ALPHA RIDGE	45	85	15.30	97	53.50	70	12	2	1	1000	1482		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 70-0029
YEAR:1970 VESSEL/AGENCY: T-3 ICE ISLAND, OREGON STATE UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
		84 40.00	84 40.00	71	11	26						X	XBT		
ALPHA RIDGE		85 15.00	97 47.00	70	12	05						X	XBT		
ALPHA RIDGE		85 15.00	97 47.00	70	12	07						X	XBT		
ALPHA RIDGE		85 15.00	97 47.00	70	12	08						X	XBT		
		85 23.80	88 40.00	71	03	30						X	XBT		

BOTTLE/CTD DATA SET NUMBER: 70-0035
YEAR:1970 VESSEL/AGENCY: USGS

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70 34.2	149 53.0	70	09	16		2.5		X		X	RS5		
ALASKAN SHELF		70 30.4	150 07.5	70	09	16				X		X	RS5		
ALASKAN SHELF		70 27.0	150 08.1	70	09	17				X		X	RS5		

BOTTLE/CTD DATA SET NUMBER: 70-0036
YEAR:1970 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO ER
BARROW	EP	71	21.64	156	21.3	70	05	06		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	05	11		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	05	16		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	05	28		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	06	10		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	06	13		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	06	16		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	06	19		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	06	23		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	07	08		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	07	09		0.		X			BOTT	
BARROW	EP	71	21.64	156	21.3	70	11	23		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	05	13		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	05	15		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	05	19		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	05	22		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	05	29		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	02		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	05		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	06		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	08		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	12		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	15		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	17		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	22		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	24		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	25		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	26		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	27		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	29		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	06	30		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	01		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	03		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	06		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	07		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	10		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	11		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	14		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	15		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	16		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	17		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	18		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	20		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	21		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	22		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	23		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	24		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	25		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	27		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	29		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	30		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	07	31		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	01		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	03		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	05		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	06		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	07		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	08		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	10		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	11		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	12		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	13		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	14		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	15		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	17		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	18		0.		X		X	BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	19		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	20		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	24		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	26		0.		X			BOTT	
BARROW	NARL	71	20.0	156	41.1	70	08	29		0.		X			BOTT	

BARROW	NARL	71	20.0	156	41.1	70	08	31		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	01		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	04		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	05		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	10		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	11		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	12		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	15		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	16		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	17		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	18		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	19		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	22		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	23		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	09	25		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	11	21		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	11	24		0.		X		BOTT
BARROW	NARL	71	20.0	156	41.1	70	11	25		0.		X		BOTT
PRUDHOE BAY	NARL	71	20.0	156	41.1	70	11	25		0.		X		BOTT

BOTTLE/CTD DATA SET NUMBER: 71-0013
YEAR:1971 VESSEL/AGENCY: ST. LAURENT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
LINCOLN SEA	10	82	32.40	62	2.00	71	8	22	2	80	100		X	X	BOTT		
LINCOLN SEA	11	82	41.42	61	7.00	71	8	22	5	80	107		X	X	BOTT		
LINCOLN SEA	12	82	56.00	60	30.00	71	8	22	7	80	115		X	X	BOTT		
LINCOLN SEA	13	82	36.00	59	15.00	71	8	22	10	166	195		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 71-0020
YEAR:1971 VESSEL/AGENCY: GLACIER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	70	16.00	143	40.00	71	8	20		30	33	X		X	CTD		
ALASKAN SHELF	2	70	25.00	143	40.00	71	8	20	6	40	44	X		X	CTD		
	3	70	32.70	143	37.40	71	8	20	14	80	80	X		X	CTD		
	4	70	45.60	143	42.30	71	8	21	1	500	507	X		X	CTD		
	5	71	0.50	145	35.00	71	8	22		506	503	X		X	CTD		
ALASKAN SHELF	6	70	48.50	145	56.10	71	8	22	14	78	81	X		X	CTD		
ALASKAN SHELF	7	70	38.30	146	0.80	71	8	22	20	45	53	X		X	CTD		
ALASKAN SHELF	8	70	25.30	146	8.00	71	8	23		30	33	X		X	CTD		
ALASKAN SHELF	9	70	18.00	146	5.00	71	8	23	4	23	25	X		X	CTD		
ALASKAN SHELF	10	70	20.70	146	33.50	71	8	23	8	20	22	X		X	CTD		
ALASKAN SHELF	11	70	25.00	147	5.00	71	8	23	11	25	27	X		X	CTD		
ALASKAN SHELF	12	70	36.50	147	0.00	71	8	23	15	34	36	X		X	CTD		
ALASKAN SHELF	13	70	45.00	147	0.00	71	8	23	21	35	39	X		X	CTD		
	14	71	0.00	147	4.00	71	8	24	12	484	502	X		X	CTD		
	15	71	0.00	147	4.00	71	8	24	21	780	844	X		X	CTD		
	16	71	13.70	147	26.60	71	8	25	3	1500	2000	X		X	CTD		
	17	71	13.70	147	26.60	71	8	25	6	1800	2000	X		X	CTD		
CANADA BASIN	18	71	22.80	147	55.20	71	8	26	11	1500	2200	X		X	CTD		
	19	71	9.40	148	0.40	71	8	27	4	900	1006	X		X	CTD		
ALASKAN SHELF	20	70	38.40	148	4.00	71	8	27	17	20	27	X		X	CTD		
ALASKAN SHELF	21	70	38.40	148	4.00	71	8	28	22	20	29	X		X	CTD		
ALASKAN SHELF	22	70	31.20	147	31.20	71	8	29	3	23	29	X		X	CTD		
	23	70	54.50	147	26.50	71	8	29	10	47	48	X		X	CTD		
	24	70	59.00	147	24.00	71	8	29	19	90	105	X		X	CTD		
	25	71	7.80	148	1.30	71	8	30	2	600	550	X		X	CTD		
	26	71	5.00	147	58.00	71	8	30	11	90	93	X		X	CTD		
	27	71	5.00	147	58.00	71	8	30	17	50	52	X		X	CTD		
ALASKAN SHELF	28	70	49.50	148	1.00	71	8	30	23	40	43	X		X	CTD		
ALASKAN SHELF	29	70	40.00	148	3.00	71	8	31	3	25	29	X		X	CTD		
ALASKAN SHELF	30	70	37.20	148	11.40	71	8	31	6	20	21	X		X	CTD		

ALASKAN SHELF	31	70	44.90	148	22.00	71	8	31	10	29	31	X		X	CTD
	32	70	54.30	148	22.20	71	8	31	15	37	39	X		X	CTD
	33	71	9.30	148	19.00	71	8	31	20	200	256	X		X	CTD
	34	71	12.00	148	36.00	71	9	1	2	75	90	X		X	CTD
	35	70	57.00	148	31.00	71	9	1	8	37	39	X		X	CTD
ALASKAN SHELF	36	70	48.60	148	43.80	71	9	1	12	31	33	X		X	CTD
ALASKAN SHELF	37	70	43.40	148	41.50	71	9	1	15	20	22	X		X	CTD
ALASKAN SHELF	38	70	36.00	148	50.00	71	9	1	19	17	19	X		X	CTD
ALASKAN SHELF	39	70	49.50	148	50.00	71	9	2	23	30	34	X		X	CTD
	40	71	0.00	148	50.70	71	9	3	14	30	33	X		X	CTD
	41	71	12.00	148	43.90	71	9	3	19	120	166	X		X	CTD
CANADA BASIN	42	71	20.20	149	7.10	71	9	4	8	1500	1829	X		X	CTD
CANADA BASIN	43	71	23.40	149	39.00	71	9	5	19	100	1829	X		X	CTD
	44	71	14.40	149	25.90	71	9	5	21	500	558	X		X	CTD
	45	71	11.90	149	31.10	71	9	6	2	100	192	X		X	CTD
	46	70	55.20	148	57.00	71	9	6	17	30	34	X		X	CTD
ALASKAN SHELF	47	70	43.00	149	0.00	71	9	6	21	20	24	X		X	CTD
ALASKAN SHELF	48	70	39.00	148	21.00	71	9	7	21	20	22	X		X	CTD
ALASKAN SHELF	49	70	39.00	148	21.00	71	9	7	23	20	22	X		X	CTD
ALASKAN SHELF	50	70	39.00	148	21.00	71	9	8	1	20	23	X		X	CTD
ALASKAN SHELF	51	70	39.00	148	21.00	71	9	8	3	20	23	X		X	CTD
ALASKAN SHELF	52	70	39.00	148	21.00	71	9	8	5	20	23	X		X	CTD
ALASKAN SHELF	53	70	41.00	148	25.00	71	9	8	16	23	25	X		X	CTD
ALASKAN SHELF	54	70	41.00	148	25.00	71	9	8	19	20	25	X		X	CTD
ALASKAN SHELF	55	70	41.00	148	25.00	71	9	8	20	20	25	X		X	CTD
ALASKAN SHELF	56	70	41.00	148	25.00	71	9	8	22	20	25	X		X	CTD
ALASKAN SHELF	57	70	41.00	148	25.00	71	9	8	23	20	25	X		X	CTD
ALASKAN SHELF	58	70	41.00	148	25.00	71	9	9	2	20	25	X		X	CTD
ALASKAN SHELF	59	70	41.00	148	25.00	71	9	9	4	20	25	X		X	CTD
ALASKAN SHELF	60	71	4.00	151	22.00	71	9	10	1	18	20	X		X	CTD
ALASKAN SHELF	61	71	11.00	151	13.60	71	9	10	7	45	47	X		X	CTD
	62	71	19.30	151	17.70	71	9	10	12	68	71	X		X	CTD
	63	71	20.00	151	13.00	71	9	10	14	85	98	X		X	CTD
ALASKAN SHELF	64	71	14.80	150	27.60	71	9	10	21	90	95	X		X	CTD
ALASKAN SHELF	65	71	4.70	150	27.60	71	9	11	5	25	28	X		X	CTD
	66	70	58.40	149	59.10	71	9	11	10	24	26	X		X	CTD
	67	70	58.20	149	52.90	71	9	11	14	25	28	X		X	CTD
	68	70	55.70	149	23.20	71	9	11	17	25	28	X		X	CTD
	69	71	8.10	149	22.20	71	9	11	23	42	44	X		X	CTD
	70	71	11.50	149	46.40	71	9	12	4	100	107	X		X	CTD
	71	71	17.20	150	24.00	71	9	12	12	420	530	X		X	CTD
	72	71	30.20	150	31.10	71	9	13	8	1800	1829	X		X	CTD
	73	71	30.20	150	31.30	71	9	13	10	1513	1820	X		X	CTD
ALASKAN SHELF	74	71	38.80	152	59.60	71	9	15	4	90	113	X		X	CTD
ALASKAN SHELF	75	71	34.40	152	55.20	71	9	15	11	55	58	X		X	CTD
ALASKAN SHELF	76	71	22.20	152	51.90	71	9	15	14	78	93	X		X	CTD
ALASKAN SHELF	77	71	7.50	153	0.00	71	9	15	19	20	22	X		X	CTD
ALASKAN SHELF	78	71	7.50	153	0.00	71	9	15	22	20	22	X		X	CTD
ALASKAN SHELF	79	71	7.50	153	0.00	71	9	16		20	22	X		X	CTD
ALASKAN SHELF	80	71	7.50	153	0.00	71	9	16	2	20	22	X		X	CTD
ALASKAN SHELF	81	71	7.50	153	0.00	71	9	16	4	20	22	X		X	CTD
ALASKAN SHELF	82	71	7.50	153	0.00	71	9	16	6	20	22	X		X	CTD
ALASKAN SHELF	83	71	23.00	153	34.00	71	9	16	11	48	52	X		X	CTD
ALASKAN SHELF	84	71	22.60	154	4.20	71	9	16	13	35	37	X		X	CTD
ALASKAN SHELF	85	71	25.20	154	28.20	71	9	16	13	28	31	X		X	CTD

BOTTLE/CTD DATA SET NUMBER: 71-0021
YEAR:1971 VESSEL/AGENCY: HATCHIK, WEBSEC '71

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF		70 54.	150 30.*	71 08*			X		X	BOTT	
ALASKAN SHELF		70 50.	150 30.	71 08			X		X	BOTT	
ALASKAN SHELF		70 42.	150 30.	71 08			X		X	BOTT	
ALASKAN SHELF		70 36.	150 30.	71 08			X		X	BOTT	
ALASKAN SHELF		70 47.	150 03.	71 08			X		X	BOTT	
ALASKAN SHELF		70 33.	150 03.	71 08			X		X	BOTT	
ALASKAN SHELF		70 50.	149 45.	71 08			X		X	BOTT	
ALASKAN SHELF		70 46.	149 44.	71 08			X		X	BOTT	
ALASKAN SHELF		70 41.	149 44.	71 08			X		X	BOTT	
ALASKAN SHELF		70 36.	149 45.	71 08			X		X	BOTT	
ALASKAN SHELF		70 32.	149 46.	71 08			X		X	BOTT	
ALASKAN SHELF		70 45.	149 20.	71 08			X		X	BOTT	
ALASKAN SHELF		70 36.	149 16.	71 08			X		X	BOTT	

ALASKAN SHELF	70	31.	149	20.	71	08		X	X	BOTT
ALASKAN SHELF	70	37.	149	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	33.	148	59.	71	08		X	X	BOTT
ALASKAN SHELF	70	31.	149	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	29.	149	01.	71	08		X	X	BOTT
ALASKAN SHELF	70	33.	148	43.	71	08		X	X	BOTT
ALASKAN SHELF	70	31.	148	43.	71	08		X	X	BOTT
ALASKAN SHELF	70	28.	148	44.	71	08		X	X	BOTT
ALASKAN SHELF	70	34.	148	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	32.	148	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	30.	148	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	27.	148	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	25.	148	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	23.	148	19.	71	08		X	X	BOTT
ALASKAN SHELF	70	21.	148	20.	71	08		X	X	BOTT
ALASKAN SHELF	70	32.	148	13.	71	08		X	X	BOTT
ALASKAN SHELF	70	27.	148	14.	71	08		X	X	BOTT
ALASKAN SHELF	70	23.	148	13.	71	08		X	X	BOTT
ALASKAN SHELF	70	31.	148	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	26.	148	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	23.	148	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	24.	147	44.	71	08		X	X	BOTT
ALASKAN SHELF	70	30.	147	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	26.	147	35.	71	08		X	X	BOTT
ALASKAN SHELF	70	23.	147	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	18.	147	30.	71	08		X	X	BOTT
ALASKAN SHELF	70	14.	147	31.	71	08		X	X	BOTT
ALASKAN SHELF	70	18.	147	16.	71	08		X	X	BOTT
ALASKAN SHELF	70	19.	147	00.	71	08		X	X	BOTT
ALASKAN SHELF	70	14.	147	02.	71	08		X	X	BOTT
ALASKAN SHELF	70	16.	146	49.	71	08		X	X	BOTT

* Nominal date; station locations are approximated from figure.

BOTTLE/CTD DATA SET NUMBER: 71-0022B
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
HARRISON BAY	T1	70	31.60	150	7.00	71	07	28		2.2			X			
HARRISON BAY	T2	70	30.60	150	2.00	71	07	28		3.0			X			
HARRISON BAY	T3	70	29.20	149	58.00	71	07	28		1.0			X			
HARRISON BAY	T4	70	31.20	150	4.00	71	08	11		2.5			X			
HARRISON BAY	T5	70	30.00	150	0.00	71	08	11		2.5			X			
PRUDHOE BAY	BS1	70	25.00	148	27.00	71	08	01		4.0			X			
PRUDHOE BAY	BS2	70	29.50	149	1.00	71	08	01		4.0			X			
PRUDHOE BAY	BS2	70	29.50	149	1.00	71	08	15		2.0			X			
PRUDHOE BAY	BS3	70	31.20	149	8.00	71	08	01		4.0			X			
PRUDHOE BAY	BS3	70	31.20	149	8.00	71	08	15		2.0			X			
PRUDHOE BAY	BS4	70	32.50	149	17.00	71	08	01		4.0			X			
PRUDHOE BAY	BS4	70	32.50	149	17.00	71	08	09		2.0			X			
PRUDHOE BAY	BS5	70	33.60	149	27.00	71	08	01		4.0			X			
PRUDHOE BAY	BS6	70	34.40	149	40.00	71	08	01		4.0			X			
PRUDHOE BAY	BS7	70	34.20	149	53.00	71	08	09		4.0			X			
PRUDHOE BAY	BS8	70	34.10	150	11.00	71	08	11		4.0			X			
HARRISON BAY	HB1	70	31.50	150	21.00	71	08	12		2.0			X			
HARRISON BAY	HB3	70	32.80	150	54.00	71	08	12		2.0			X			
HARRISON BAY	HB3	70	32.80	150	54.00	71	08	13		2.0			X			
HARRISON BAY	HB5	70	29.50	151	20.50	71	08	12		2.0			X			
HARRISON BAY	HB5	70	29.50	151	20.50	71	08	13		2.0			X			
HARRISON BAY	HB6	70	30.00	150	11.00	71	08	13		2.0			X			
HARRISON BAY	HB7	70	27.00	150	2.00	71	08	13		1.5			X			
SIMPSON LAGOON	SL1	70	29.70	149	10.00	71	08	08		1.0			X			
SIMPSON LAGOON	SL1	70	29.70	149	10.00	71	08	15		0.0			X			
SIMPSON LAGOON	SL2	70	30.20	149	9.00	71	08	08		2.0			X			
SIMPSON LAGOON	SL2	70	30.20	149	9.00	71	08	15		1.0			X			
SIMPSON LAGOON	SL3	70	30.70	149	9.00	71	08	08		1.0			X			
SIMPSON LAGOON	SL3	70	30.70	149	9.00	71	08	15		1.0			X			
SIMPSON LAGOON	SL4	70	31.70	149	18.00	71	08	09		1.0			X			
SIMPSON LAGOON	SL5	70	31.20	149	19.00	71	08	09		1.5			X			
SIMPSON LAGOON	SL6	70	30.50	149	19.00	71	08	09		1.0			X			
SIMPSON LAGOON	SL7	70	31.30	149	28.00	71	08	09		1.0			X			
SIMPSON LAGOON	SL8	70	31.90	149	27.00	71	08	09		1.5			X			
SIMPSON LAGOON	SL9	70	32.50	149	27.00	71	08	09		1.5			X			
SIMPSON LAGOON	SL10	70	30.90	149	40.00	71	08	10		1.0			X			
SIMPSON LAGOON	SL11	70	31.90	149	40.00	71	08	10		1.0			X			

SIMPSON LAGOON	SL12	70	32.80	149	41.00	71	08	10	1.5		X	
SIMPSON LAGOON	SL13	70	33.70	149	41.00	71	08	10	1.5		X	
SIMPSON LAGOON	SL14	70	33.50	149	53.00	71	08	10	1.0		X	
SIMPSON LAGOON	SL14	70	33.50	149	53.00	71	08	11	1.0		X	
SIMPSON LAGOON	SL15	70	32.70	149	53.00	71	08	10	2.0		X	
SIMPSON LAGOON	SL15	70	32.70	149	53.00	71	08	11	2.0		X	
SIMPSON LAGOON	SL16	70	31.80	149	52.00	71	08	10	2.0		X	
SIMPSON LAGOON	SL16	70	31.80	149	52.00	71	08	11	2.0		X	
SIMPSON LAGOON	SL17	70	31.20	149	52.00	71	08	10	1.5		X	
SIMPSON LAGOON	SL17	70	31.20	149	52.00	71	08	11	1.5		X	

BOTTLE/CTD DATA SET NUMBER: 71-0023
YEAR:1971 VESSEL/AGENCY: NORTHWIND, MIZPAC '71

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR
ALASKAN SHELF	1	71	31.00	159	42.00	71	07	30	01		54	X		X	BISS	
ALASKAN SHELF	3	71	30.00	159	43.50	71	07	31	19		48	X		X	BISS	
ALASKAN SHELF	4	71	30.00	159	43.50	71	07	31	22		48	X		X	BISS	
ALASKAN SHELF	5	71	30.00	159	43.50	71	08	01	00		48	X		X	BISS	
ALASKAN SHELF	6	71	30.00	159	43.50	71	08	01	04		48	X		X	BISS	
ALASKAN SHELF	17	71	30.00	159	56.00	71	08	02	16		48	X		X	BISS	
ALASKAN SHELF	17	71	30.00	159	56.00	71	08	02	16		48	X		X	BISS	
ALASKAN SHELF	18	71	30.00	159	56.00	71	08	02	18		48	X		X	BISS	
ALASKAN SHELF	19	71	30.00	159	56.00	71	08	02	19		48	X		X	BISS	
ALASKAN SHELF	19	71	30.00	159	56.00	71	08	02	19		48	X		X	BISS	
ALASKAN SHELF	20	71	30.00	159	56.00	71	08	02	20		50	X		X	BISS	
ALASKAN SHELF	20	71	30.00	159	56.00	71	08	02	20		50	X		X	BISS	
ALASKAN SHELF	23	71	30.00	159	56.00	71	08	03	00		50	X		X	BISS	
ALASKAN SHELF	24	71	30.00	159	56.00	71	08	03	03		50	X		X	BISS	
ALASKAN SHELF	24	71	30.00	159	56.00	71	08	03	03		50	X		X	BISS	
ALASKAN SHELF	26	71	30.00	159	56.00	71	08	03	06		50	X		X	BISS	
ALASKAN SHELF	27	71	30.00	159	56.00	71	08	03	07		48	X		X	BISS	
ALASKAN SHELF	28	71	30.00	159	56.00	71	08	03	08		48	X		X	BISS	
ALASKAN SHELF	29	71	30.00	159	56.00	71	08	03	09		48	X		X	BISS	
ALASKAN SHELF	30	71	30.00	159	56.00	71	08	03	10		48	X		X	BISS	
ALASKAN SHELF	31	71	30.00	159	56.00	71	08	03	11		48	X		X	BISS	
ALASKAN SHELF	32	71	30.00	159	56.00	71	08	03	12		48	X		X	BISS	
ALASKAN SHELF	33	71	30.00	159	56.00	71	08	03	13		48	X		X	BISS	
ALASKAN SHELF	34	71	30.00	159	56.00	71	08	03	14		48	X		X	BISS	
ALASKAN SHELF	35	71	30.00	159	56.00	71	08	03	15		48	X		X	BISS	
ALASKAN SHELF	55	70	53.00	159	46.00	71	08	05	02		49	X		X	BISS	
ALASKAN SHELF	56	70	56.50	159	41.00	71	08	05	02		54	X		X	BISS	
ALASKAN SHELF	57	70	58.40	159	23.00	71	08	05	04		60	X		X	BISS	
ALASKAN SHELF	58	70	58.00	159	4.00	71	08	05	05		33	X		X	BISS	
ALASKAN SHELF	60	70	59.00	158	31.00	71	08	05	69		20	X		X	BISS	
ALASKAN SHELF	61	70	59.00	158	11.00	71	08	05	09		25	X		X	BISS	
ALASKAN SHELF	62	71	3.00	158	4.00	71	08	05	10		32	X		X	BISS	
ALASKAN SHELF	63	71	4.00	158	2.00	71	08	05	11		31	X		X	BISS	
ALASKAN SHELF	64	71	9.00	157	55.00	71	08	05	12		43	X		X	BISS	
ALASKAN SHELF	65	71	19.00	157	54.50	71	08	05	14		115	X		X	BISS	
ALASKAN SHELF	65	71	19.00	157	54.50	71	08	05	14		115	X		X	BISS	
ALASKAN SHELF	66	71	21.00	157	45.00	71	08	05	15		122	X		X	BISS	
ALASKAN SHELF	66	71	21.00	157	45.00	71	08	05	15		122	X		X	BISS	
ALASKAN SHELF	68	71	21.00	158	8.00	71	08	05	19		114	X		X	BISS	
ALASKAN SHELF	69	71	21.00	158	8.00	71	08	05	22		117	X		X	BISS	
ALASKAN SHELF	70	71	17.90	157	5.50	71	08	06	01			X		X	BISS	
ALASKAN SHELF	71	71	19.30	156	58.40	71	08	06	03		60	X		X	BISS	
ALASKAN SHELF	72	71	19.90	156	51.10	71	08	06	11		43	X		X	BISS	
ALASKAN SHELF	73	71	29.00	156	16.00	71	08	06	17		134	X		X	BISS	
ALASKAN SHELF	74	71	31.00	155	51.00	71	08	06	19		119	X		X	BISS	
ALASKAN SHELF	75	71	25.60	155	42.00	71	08	07	03		13	X		X	BISS	
ALASKAN SHELF	76	71	26.80	155	41.10	71	08	07	04		27	X		X	BISS	
ALASKAN SHELF	78	71	26.00	155	10.00	71	08	07	07		23	X		X	BISS	
ALASKAN SHELF	79	71	26.00	154	52.00	71	08	07	08		18	X		X	BISS	
ALASKAN SHELF	80	71	26.20	154	52.00	71	08	07	09		29	X		X	BISS	
ALASKAN SHELF	81	71	22.60	154	45.00	71	08	07	10		25	X		X	BISS	
ALASKAN SHELF	82	71	19.30	154	40.00	71	08	07	11		16	X		X	BISS	
ALASKAN SHELF	83	71	22.00	154	33.00	71	08	07	12		27	X		X	BISS	
ALASKAN SHELF	84	71	23.60	154	28.00	71	08	07	13		29	X		X	BISS	
ALASKAN SHELF	85	71	26.00	154	23.00	71	08	07	14		27	X		X	BISS	
ALASKAN SHELF	86	71	29.00	154	12.00	71	08	07	15			X		X	BISS	
ALASKAN SHELF	87	71	35.00	153	58.00	71	08	07	17		58	X		X	BISS	
ALASKAN SHELF	88	71	35.00	155	47.00	71	08	07	19		44	X		X	BISS	

ALASKAN SHELF	89	71	40.20	155	29.00	71	08	08	11	155	X	X	BISS
ALASKAN SHELF	90	71	47.00	155	41.00	71	08	08	13	139	X	X	BISS
ALASKAN SHELF	91	71	52.00	155	58.00	71	08	08	14	104	X	X	BISS
ALASKAN SHELF	92	71	42.00	155	36.00	71	08	08	19	80	X	X	BISS
ALASKAN SHELF	93	71	46.20	155	40.80	71	08	08	21	89	X	X	BISS
ALASKAN SHELF	94	71	45.50	155	45.60	71	08	08	23	81	X	X	BISS
ALASKAN SHELF	95	71	47.50	155	58.00	71	08	09	01	104	X	X	BISS
ALASKAN SHELF	96	71	42.00	155	47.00	71	08	09	04	137	X	X	BISS
ALASKAN SHELF	97	71	41.00	155	56.00	71	08	09	06	110	X	X	BISS
ALASKAN SHELF	98	71	42.00	156	17.00	71	08	09	08	91	X	X	BISS
ALASKAN SHELF	98	71	42.00	156	17.00	71	08	09	08	91	X	X	BISS
ALASKAN SHELF	99	71	38.00	156	28.00	71	08	09	10	91	X	X	BISS
ALASKAN SHELF	100	71	32.80	156	15.00	71	08	09	12	165	X	X	BISS
ALASKAN SHELF	100	71	32.80	156	15.00	71	08	09	12	165	X	X	BISS
ALASKAN SHELF	101	71	34.00	155	54.00	71	08	09	14	188	X	X	BISS
ALASKAN SHELF	102	71	33.00	155	28.00	71	08	09	16	168	X	X	BISS
ALASKAN SHELF	103	71	34.00	155	33.00	71	08	09	18	46	X	X	BISS
ALASKAN SHELF	104	71	31.00	155	4.00	71	08	09	20	27	X	X	BISS
ALASKAN SHELF	106	71	18.50	153	21.00	71	08	10	05	40	X	X	BISS
ALASKAN SHELF	107	71	13.10	153	48.00	71	08	10	19	22	X	X	BISS
ALASKAN SHELF	108	71	10.00	153	44.00	71	08	11	06	20	X	X	BISS
ALASKAN SHELF	109	71	19.00	153	52.00	71	08	11	17	41	X	X	BISS
ALASKAN SHELF	110	71	19.60	153	41.60	71	08	11	18	40	X	X	BISS
ALASKAN SHELF	111	71	21.80	153	42.00	71	08	11	19	47	X	X	BISS
ALASKAN SHELF	112	71	21.00	153	28.00	71	08	11	20	50	X	X	BISS
ALASKAN SHELF	113	71	18.10	153	24.00	71	08	11	21	50	X	X	BISS
ALASKAN SHELF	114	71	18.00	153	10.50	71	08	11	22	47	X	X	BISS
ALASKAN SHELF	115	71	15.50	153	0.00	71	08	11	23	34	X	X	BISS
ALASKAN SHELF	116	71	15.60	152	43.00	71	08	12	00	32	X	X	BISS
ALASKAN SHELF	117	71	15.50	152	32.00	71	08	12	01	29	X	X	BISS
ALASKAN SHELF	118	71	12.50	152	24.00	71	08	12	02	32	X	X	BISS
ALASKAN SHELF	119	71	2.00	152	33.00	71	08	12	17	13	X	X	BISS
ALASKAN SHELF	120	70	41.50	151	10.00	71	08	12	22	14	X	X	BISS
ALASKAN SHELF	121	70	42.10	150	55.00	71	08	13	00	13	X	X	BISS
ALASKAN SHELF	122	70	46.00	151	0.00	71	08	13	01	18	X	X	BISS
ALASKAN SHELF	123	70	47.90	151	10.00	71	08	13	03	18	X	X	BISS
ALASKAN SHELF	124	70	52.00	151	15.00	71	08	13	04	18	X	X	BISS
ALASKAN SHELF	125	70	56.00	151	23.00	71	08	13	04	14	X	X	BISS
ALASKAN SHELF	126	70	55.50	151	33.00	71	08	13	05	19	X	X	BISS
ALASKAN SHELF	127	71	4.00	151	52.00	71	08	13	06	20	X	X	BISS
ALASKAN SHELF	128	71	7.00	152	0.50	71	08	13	08	19	X	X	BISS
ALASKAN SHELF	129	71	8.80	152	1.00	71	08	13	17	29	X	X	BISS
ALASKAN SHELF	130	71	20.30	156	54.60	71	08	17	22	38	X	X	BISS
ALASKAN SHELF	131	71	35.00	158	15.00	71	08	18	02	72	X	X	BISS
ALASKAN SHELF	132	71	35.00	158	14.00	71	08	18	03	172	X	X	BISS
ALASKAN SHELF	133	71	37.00	158	15.00	71	08	18	04	70	X	X	BISS
ALASKAN SHELF	134	71	43.00	158	45.00	71	08	18	12	61	X	X	BISS
ALASKAN SHELF	135	71	43.00	158	45.00	71	08	18	13	61	X	X	BISS
ALASKAN SHELF	160	71	30.50	158	40.00	71	08	20	08	46	X	X	BISS
ALASKAN SHELF	161	71	29.00	158	37.00	71	08	20	09	49	X	X	BISS
ALASKAN SHELF	136D	71	43.00	158	45.00	71	08	18	14	60	X	X	BISS
ALASKAN SHELF	136S	71	43.00	158	45.00	71	08	18	14	60	X	X	BISS
ALASKAN SHELF	137D	71	43.00	158	45.00	71	08	18	15	60	X	X	BISS
ALASKAN SHELF	137S	71	43.00	158	45.00	71	08	18	15	60	X	X	BISS
ALASKAN SHELF	138D	71	44.00	158	38.00	71	08	18	16	60	X	X	BISS
ALASKAN SHELF	138S	71	44.00	158	38.00	71	08	18	16	60	X	X	BISS
ALASKAN SHELF	139D	71	38.00	158	50.50	71	08	18	18		X	X	BISS
ALASKAN SHELF	139S	71	38.00	158	50.50	71	08	18	18		X	X	BISS
ALASKAN SHELF	140D	71	36.00	158	45.00	71	08	18	21		X	X	BISS
ALASKAN SHELF	140S	71	36.00	158	45.00	71	08	18	21		X	X	BISS
ALASKAN SHELF	141D	71	36.00	158	45.00	71	08	19	00	52	X	X	BISS
ALASKAN SHELF	141S	71	36.00	158	45.00	71	08	19	00	52	X	X	BISS
ALASKAN SHELF	142D	71	32.50	158	39.00	71	08	19	03	51	X	X	BISS
ALASKAN SHELF	142S	71	32.50	158	39.00	71	08	19	03	51	X	X	BISS
ALASKAN SHELF	143D	71	21.80	158	33.30	71	08	19	04	62	X	X	BISS
ALASKAN SHELF	143S	71	21.80	158	33.30	71	08	19	04	62	X	X	BISS
ALASKAN SHELF	144D	71	22.20	158	38.00	71	08	19	05	68	X	X	BISS
ALASKAN SHELF	144S	71	22.20	158	38.00	71	08	19	05	68	X	X	BISS
ALASKAN SHELF	145D	71	18.50	158	40.00	71	08	19	06	101	X	X	BISS
ALASKAN SHELF	145S	71	18.50	158	40.00	71	08	19	06	101	X	X	BISS
ALASKAN SHELF	146D	71	16.50	158	38.00	71	08	19	07	124	X	X	BISS
ALASKAN SHELF	146S	71	16.50	158	38.00	71	08	19	07	124	X	X	BISS
ALASKAN SHELF	147D	71	14.00	158	38.00	71	08	19	08	121	X	X	BISS
ALASKAN SHELF	147S	71	14.00	158	38.00	71	08	19	08	121	X	X	BISS
ALASKAN SHELF	148D	71	14.70	158	52.00	71	08	19	08	110	X	X	BISS
ALASKAN SHELF	148S	71	14.70	158	52.00	71	08	19	08	110	X	X	BISS
ALASKAN SHELF	149D	71	13.00	158	52.00	71	08	19	09	93	X	X	BISS
ALASKAN SHELF	149S	71	13.00	158	52.00	71	08	19	09	93	X	X	BISS
ALASKAN SHELF	150D	71	6.00	159	0.00	71	08	19	10	112	X	X	BISS
ALASKAN SHELF	150S	71	6.00	159	0.00	71	08	19	10	112	X	X	BISS
ALASKAN SHELF	151D	71	7.00	159	14.00	71	08	19	11	112	X	X	BISS
ALASKAN SHELF	151S	71	7.00	159	14.00	71	08	19	11	112	X	X	BISS
ALASKAN SHELF	152D	71	8.00	159	24.00	71	08	19	12		X	X	BISS

ALASKAN SHELF	152S	71	8.00	159	24.00	71	08	19	12			X	X	BISS
ALASKAN SHELF	153D	71	9.00	159	27.50	71	08	19	13		71	X	X	BISS
ALASKAN SHELF	153S	71	9.00	159	27.50	71	08	19	13		71	X	X	BISS
ALASKAN SHELF	154D	71	7.00	159	41.00	71	08	19	14		75	X	X	BISS
ALASKAN SHELF	155D	71	13.00	159	34.00	71	08	19	16		69	X	X	BISS
ALASKAN SHELF	155S	71	13.00	159	34.00	71	08	19	16		69	X	X	BISS
ALASKAN SHELF	156D	71	17.00	159	25.00	71	08	19	17		55	X	X	BISS
ALASKAN SHELF	156S	71	17.00	159	25.00	71	08	19	17		55	X	X	BISS
ALASKAN SHELF	157D	71	23.80	159	19.50	71	08	19	19		49	X	X	BISS
ALASKAN SHELF	157S	71	23.80	159	19.50	71	08	19	19		49	X	X	BISS
ALASKAN SHELF	159D	71	26.50	159	11.00	71	08	19	22		46	X	X	BISS
ALASKAN SHELF	159S	71	26.50	159	11.00	71	08	19	22		46	X	X	BISS
ALASKAN SHELF	162D	71	23.00	158	27.00	71	08	20	10		128	X	X	BISS
ALASKAN SHELF	162S	71	23.00	158	27.00	71	08	20	10		128	X	X	BISS
ALASKAN SHELF	163D	71	12.00	158	48.00	71	08	20	17		123	X	X	BISS
ALASKAN SHELF	163S	71	12.00	158	48.00	71	08	20	17		123	X	X	BISS

BOTTLE/CTD DATA SET NUMBER: 71-0024
YEAR:1971 VESSEL/AGENCY: APPLIED PHYSICS LAB (U.WASH.), NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT MO HR
BARROW		71	31.	159	22.	71	07	31	20	36.5		X		X	APL	
BARROW		71	31.	159	22.	71	07	31	21	22.5		X		X	APL	
BARROW		71	31.	159	22.	71	07	31	22	51.0		X		X	APL	
BARROW		71	31.	159	22.	71	07	31	23	30.0		X		X	APL	
BARROW		71	31.	159	22.	71	08	01	01	45.0		X		X	APL	
BARROW		71	31.	159	22.	71	08	01	02	49.0		X		X	APL	
BARROW		71	31.	159	22.	71	08	01	04	50.5		X		X	APL	
BARROW		71	31.	159	22.	71	08	01	06	50.5		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	15	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	17	44.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	18	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	19	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	20	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	01	21	46.5		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	00	49.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	02	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	03	50.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	03	51.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	04	48.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	04	48.0		X		X	APL	
BARROW		71	26.	159	25.	71	08	02	07	48.5		X		X	APL	
BARROW		71	23.	159	30.	71	08	02	17	51.5		X		X	APL	
BARROW		71	23.	159	30.	71	08	02	18	48.5		X		X	APL	
BARROW		71	23.	159	30.	71	08	02	19	50.0		X		X	APL	
BARROW		71	23.	159	30.	71	08	03	03	50.0		X		X	APL	
BARROW		71	23.	159	30.	71	08	03	05	53.0		X		X	APL	
BARROW		71	27.	159	36.	71	08	03	19	50.0		X		X	APL	
BARROW		71	25.	159	36.	71	08	03	20	50.0		X		X	APL	
BARROW		71	23.	159	36.	71	08	03	20	50.5		X		X	APL	
BARROW		71	21.	159	36.	71	08	03	20	52.0		X		X	APL	
BARROW		71	19.	159	36.	71	08	03	20	54.0		X		X	APL	
BARROW		71	17.	159	36.	71	08	03	21	52.5		X		X	APL	
BARROW		71	14.5	159	36.	71	08	03	21	54.0		X		X	APL	
BARROW		71	13.5	159	36.	71	08	03	21	52.0		X		X	APL	
BARROW		71	12.	159	36.	71	08	03	22	50.5		X		X	APL	
BARROW		71	11.	159	36.	71	08	03	22	50.0		X		X	APL	
BARROW		71	10.	159	36.	71	08	03	22	51.0		X		X	APL	
BARROW		71	09.	159	36.	71	08	03	22	52.0		X		X	APL	
BARROW		71	08.	159	36.	71	08	03	22	50.5		X		X	APL	
BARROW		71	07.	159	36.	71	08	03	23	53.0		X		X	APL	
BARROW		71	06.	159	36.	71	08	03	23	52.0		X		X	APL	
BARROW		71	05.	159	36.	71	08	03	23	48.5		X		X	APL	
BARROW		71	04.	159	36.	71	08	03	23	52.0		X		X	APL	
BARROW		71	07.5	159	08.	71	08	05	02	54.5		X		X	APL	
BARROW		71	09.8	157	55.	71	08	05	19	48.5		X		X	APL	
BARROW		71	09.6	157	51.	71	08	05	20	44.0		X		X	APL	
BARROW		71	10.2	157	50.	71	08	05	21	44.5		X		X	APL	
BARROW		71	11.	157	42.	71	08	05	22	47.5		X		X	APL	
BARROW		71	11.	157	41.	71	08	05	23	48.5		X		X	APL	
BARROW		71	11.	157	39.	71	08	05	23	48.5		X		X	APL	
BARROW		71	13.1	157	22.	71	08	06	03	41.0		X		X	APL	
BARROW		71	13.7	157	17.	71	08	06	04	41.0		X		X	APL	

BARROW	71 14.	157 14.	71	08	06	05	39.0	X	X	APL
BARROW	71 29.	155 04.	71	08	08	01	28.5	X	X	APL
BARROW	71 33.	155 06.	71	08	08	17	28.0	X	X	APL
BARROW	71 37.	155 06.	71	08	08	20	40.0	X	X	APL
BARROW	71 40.	155 10.	71	08	08	20	22.0	X	X	APL
BARROW	71 44.	155 20.	71	08	08	21	62.5	X	X	APL
BARROW	71 46.	155 41.	71	08	08	22	65.0	X	X	APL
BARROW	71 46.	155 43.	71	08	08	23	67.5	X	X	APL
BARROW	71 45.	155 46.	71	08	08	23	66.0	X	X	APL
BARROW	71 47.	155 40.	71	08	09	00	70.0	X	X	APL
BARROW	71 47.	155 40.	71	08	09	00	70.0	X	X	APL
BARROW	71 34.8	155 06.	71	08	09	04	35.0	X	X	APL
BARROW	71 38.8	153 46.	71	08	09	23	44.0	X	X	APL
BARROW	71 17.3	153 53.	71	08	10	23	34.0	X	X	APL
BARROW	71 18.5	153 55.	71	08	11	01	26.0	X	X	APL
BARROW	71 25.	154 14.	71	08	11	18	27.0	X	X	APL
BARROW	71 24.	154 17.	71	08	11	21	33.5	X	X	APL
BARROW	71 35.	158 14.	71	08	18	02	52.5	X	X	APL
BARROW	71 35.	158 14.	71	08	18	03	54.0	X	X	APL
BARROW	71 37.	158 15.	71	08	18	04	53.0	X	X	APL
BARROW	71 43.	158 45.	71	08	18	19	54.5	X	X	APL
BARROW	71 36.	158 43.	71	08	19	09	53.0	X	X	APL
BARROW	71 33.	158 41.	71	08	19	15	51.0	X	X	APL
BARROW	71 30.	158 40.	71	08	19	21	52.0	X	X	APL
BARROW	71 09.	159 08.	71	08	20	19	50.0	X	X	APL
BARROW	71 09.	159 08.	71	08	20	20	50.5	X	X	APL
BARROW	71 09.	159 08.	71	08	20	21	51.5	X	X	APL
BARROW	71 09.	159 08.	71	08	20	22	36.0	X	X	APL
BARROW	71 07.	159 08.	71	08	20	23	50.0	X	X	APL
BARROW	71 05.	159 17.	71	08	21	00	50.0	X	X	APL
BARROW	71 02.	159 14.	71	08	21	00	45.5	X	X	APL
BARROW	71 01.	159 22.	71	08	21	01	51.0	X	X	APL
BARROW	70 59.	159 31.	71	08	21	03	52.0	X	X	APL
BARROW	71 01.5	159 44.	71	08	21	03	52.0	X	X	APL
BARROW	71 05.7	159 56.	71	08	21	04	40.0	X	X	APL
BARROW	71 03.1	160 11.	71	08	21	05	46.0	X	X	APL
BARROW	71 00.	160 22.	71	08	21	06	39.0	X	X	APL
BARROW	70 58.	160 20.	71	08	21	06	45.5	X	X	APL
BARROW	70 56.	160 22.	71	08	21	07	51.0	X	X	APL
BARROW	70 55.	160 26.	71	08	21	07	50.0	X	X	APL
BARROW	70 55.	160 25.	71	08	21	08	51.5	X	X	APL
BARROW	70 55.2	160 16.	71	08	21	08	52.0	X	X	APL
BARROW	70 55.7	160 21.	71	08	21	09	43.0	X	X	APL
BARROW	70 55.6	160 06.	71	08	21	09	52.0	X	X	APL
BARROW	70 55.	160 06.	71	08	21	10	47.0	X	X	APL
BARROW	70 55.3	159 58.	71	08	21	10	49.0	X	X	APL
BARROW	70 57.	159 53.	71	08	21	11	45.0	X	X	APL
BARROW	70 58.2	159 48.	71	08	21	11	51.5	X	X	APL
BARROW	71 00.	159 49.	71	08	21	12	51.5	X	X	APL
BARROW	71 03.	159 49.	71	08	21	12	49.5	X	X	APL
BARROW	71 04.	159 43.	71	08	21	13	52.0	X	X	APL
BARROW	71 04.	159 40.	71	08	21	13	54.5	X	X	APL
BARROW	71 04.	159 35.	71	08	21	14	45.0	X	X	APL
BARROW	71 04.	159 40.	71	08	21	14	55.0	X	X	APL
BARROW	71 04.	159 30.	71	08	21	15	41.0	X	X	APL
BARROW	71 04.	159 18.	71	08	21	16	33.0	X	X	APL
BARROW	71 09.	159 09.	71	08	21	16	55.0	X	X	APL
BARROW	71 09.5	159 00.	71	08	21	18	59.0	X	X	APL
BARROW	71 12.5	158 47.	71	08	21	19	54.0	X	X	APL
BARROW	71 12.5	158 47.	71	08	21	19	54.5	X	X	APL
BARROW	71 12.5	158 47.	71	08	21	20	53.0	X	X	APL
BARROW	71 12.5	158 47.	71	08	21	20	53.0	X	X	APL
BARROW	71 12.5	158 47.	71	08	21	21	54.5	X	X	APL
BARROW	71 12.	158 51.	71	08	21	21	52.0	X	X	APL
BARROW	71 13.8	158 57.	71	08	21	22	50.0	X	X	APL
BARROW	71 14.	158 57.	71	08	22	00	53.0	X	X	APL
BARROW	71 14.	158 57.	71	08	22	03	42.0	X	X	APL
BARROW	71 14.	159 12.	71	08	22	05	52.0	X	X	APL
BARROW	71 14.	159 19.	71	08	22	13	53.5	X	X	APL
BARROW	71 14.	159 21.	71	08	22	15	52.0	X	X	APL
BARROW	71 06.	159 00.	71	08	22	18	54.0	X	X	APL
BARROW	71 08.	159 00.	71	08	22	19	46.0	X	X	APL
BARROW	71 10.	159 01.	71	08	22	20	51.5	X	X	APL
BARROW	71 12.2	159 03.	71	08	22	20	51.5	X	X	APL
BARROW	71 13.5	159 03.	71	08	22	21	52.0	X	X	APL
BARROW	71 15.5	159 03.	71	08	22	21	52.5	X	X	APL
BARROW	71 16.1	159 00.	71	08	22	22	52.5	X	X	APL
BARROW	71 18.8	159 00.	71	08	22	23	52.0	X	X	APL
BARROW	71 21.	159 00.	71	08	22	23	45.0	X	X	APL
BARROW	71 23.	159 00.	71	08	23	00	49.0	X	X	APL
BARROW	71 25.	159 00.	71	08	23	00	50.0	X	X	APL
BARROW	71 27.	159 00.	71	08	23	01	50.0	X	X	APL
BARROW	71 29.	159 00.	71	08	23	01	50.0	X	X	APL

BARROW	71 31.	159 00.	71	08	23	02	50.5	X	X	APL
BARROW	71 33.	159 00.	71	08	23	03	49.5	X	X	APL
BARROW	71 35.	159 00.	71	08	23	03	50.0	X	X	APL
BARROW	71 37.	159 00.	71	08	23	04	50.0	X	X	APL
BARROW	71 39.	159 00.	71	08	23	04	49.5	X	X	APL
BARROW	71 41.	159 00.	71	08	23	05	50.0	X	X	APL
BARROW	71 43.	159 00.	71	08	23	06	50.0	X	X	APL
BARROW	71 41.	158 47.	71	08	23	07	50.0	X	X	APL
BARROW	71 37.	158 42.	71	08	23	07	50.0	X	X	APL
BARROW	71 34.	158 40.	71	08	23	08	49.5	X	X	APL
BARROW	71 34.	158 07.	71	08	23	09	49.0	X	X	APL
BARROW	71 33.	158 00.	71	08	23	10	49.0	X	X	APL
BARROW	71 27.9	157 54.	71	08	23	10	51.0	X	X	APL
BARROW	71 28.5	157 47.	71	08	23	10	50.0	X	X	APL
BARROW	71 26.6	157 45.	71	08	23	11	50.0	X	X	APL
BARROW	71 25.7	157 41.	71	08	23	11	52.0	X	X	APL
BARROW	71 25.5	157 36.	71	08	23	12	50.5	X	X	APL
BARROW	71 25.	157 33.	71	08	23	12	52.5	X	X	APL
BARROW	71 25.	157 32.	71	08	23	13	51.0	X	X	APL
BARROW	71 25.2	157 25.	71	08	23	13	53.0	X	X	APL
BARROW	71 25.	157 25.	71	08	23	14	51.0	X	X	APL
BARROW	71 24.1	157 23.	71	08	23	15	52.0	X	X	APL
BARROW	71 24.	157 11.	71	08	23	15	42.0	X	X	APL
BARROW	71 21.3	156 45.	71	08	23	21	40.0	X	X	APL
BARROW	71 21.7	156 48.	71	08	23	22	52.0	X	X	APL
BARROW	71 22.2	156 51.	71	08	23	22	20.0	X	X	APL
BARROW	71 22.2	156 53.	71	08	23	23	38.0	X	X	APL
BARROW	71 22.4	156 57.	71	08	23	23	53.0	X	X	APL
BARROW	71 22.6	157 00.	71	08	24	00	50.5	X	X	APL
BARROW	71 22.9	157 03.	71	08	24	00	52.0	X	X	APL
BARROW	71 23.1	157 06.	71	08	24	01	51.0	X	X	APL
BARROW	71 23.6	157 08.	71	08	24	01	54.0	X	X	APL
BARROW	71 24.7	157 06.	71	08	24	02	57.0	X	X	APL
BARROW	71 25.3	157 06.	71	08	24	03	53.0	X	X	APL
BARROW	71 27.7	157 05.	71	08	24	03	53.0	X	X	APL
BARROW	71 29.4	157 06.	71	08	24	04	55.0	X	X	APL
BARROW	71 31.	157 06.	71	08	24	04	53.0	X	X	APL
BARROW	71 33.	157 07.	71	08	24	05	53.0	X	X	APL
BARROW	71 35.	157 07.	71	08	24	05	53.0	X	X	APL
BARROW	71 38.	157 05.	71	08	24	06	53.0	X	X	APL
BARROW	71 40.	157 06.	71	08	24	06	53.0	X	X	APL
BARROW	71 41.5	157 02.	71	08	24	07	53.0	X	X	APL
BARROW	71 43.5	157 02.	71	08	24	07	53.0	X	X	APL
BARROW	71 46.5	157 04.	71	08	24	08	56.0	X	X	APL
BARROW	71 50.6	157 03.	71	08	24	08	52.0	X	X	APL
BARROW	71 51.2	157 10.2	71	08	24	08	34.5	X	X	APL
BARROW	71 54.9	157 08.	71	08	24	09	43.5	X	X	APL
BARROW	71 58.	157 05.	71	08	24	10	53.0	X	X	APL

BOTTLE/CTD DATA SET NUMBER: 71-0025
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TC (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON	C-1	70 29.20	149 55.00	71	05*					X		X			
SIMPSON LAGOON	OP-1	70 30.10	149 51.00	71	05					X		X			
SIMPSON LAGOON	OP-2	70 31.90	149 48.00	71	05					X		X			
SIMPSON LAGOON	OP-3	70 32.80	149 46.00	71	05					X		X			
SIMPSON LAGOON	OP-4	70 33.50	149 45.00	71	05					X		X			
SIMPSON LAGOON	OT-1	70 30.40	149 59.00	71	05					X		X			
SIMPSON LAGOON	OT-2	70 30.70	150 2.00	71	05					X		X			
SIMPSON LAGOON	OT-3	70 31.40	150 5.00	71	05					X		X			
SIMPSON LAGOON	PO-2	70 33.30	149 48.00	71	05					X		X			
SIMPSON LAGOON	PO-3	70 31.40	149 50.00	71	05					X		X			
SIMPSON LAGOON	PS-1	70 33.40	149 42.00	71	05					X		X			
SIMPSON LAGOON	PS-2	70 32.50	149 42.00	71	05					X		X			
SIMPSON LAGOON	PS-4	70 31.40	149 41.00	71	05					X		X			
SIMPSON LAGOON	PS-5	70 30.70	149 41.00	71	05					X		X			
SIMPSON LAGOON	SH-1	70 32.10	149 41.00	71	05					X		X			
SIMPSON LAGOON	SH-2	70 32.20	149 36.00	71	05					X		X			
SIMPSON LAGOON	SH-3	70 32.70	149 34.00	71	05					X		X			
SIMPSON LAGOON	SH-4	70 32.00	149 30.00	71	05					X		X			
SIMPSON LAGOON	SH-5	70 32.60	149 29.00	71	05					X		X			
SIMPSON LAGOON	SO-1	70 32.60	149 54.00	71	05					X		X			

SIMPSON LAGOON	SO-2	70	31.60	149	54.00	71	05					X		X	
HARRISON BAY	TK-1	70	30.80	150	7.00	71	05					X		X	
HARRISON BAY	TK-2	70	29.30	150	6.00	71	05					X		X	
HARRISON BAY	TK-3	70	28.30	150	6.00	71	05					X		X	
HARRISON BAY	TK-4	70	26.80	150	6.00	71	05					X		X	
HARRISON BAY	TW-1	70	31.60	150	13.00	71	05					X		X	
HARRISON BAY	TW-2	70	31.60	150	19.00	71	05					X		X	
SIMPSON LAGOON	SWE-1	70	30.60	149	10.00	71	05					X		X	
SIMPSON LAGOON	SWE-2	70	31.00	149	12.00	71	05					X		X	
SIMPSON LAGOON	SWE-3	70	31.50	149	18.00	71	05					X		X	
SIMPSON LAGOON	SWE-4	70	32.20	149	22.00	71	05					X		X	
SIMPSON LAGOON	SWE-5	70	32.10	149	24.00	71	05					X		X	
SIMPSON LAGOON	SWE-6	70	31.40	149	27.00	71	05					X		X	
SIMPSON LAGOON	SWE-1	70	31.00	149	48.00	71	05					X		X	

* Nominal date; locations approximate.

BOTTLE/CTD DATA SET NUMBER: 71-0026
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKA SHELF	1	71	18.50	156	16.00*	71	04*										
ALASKA SHELF	2	71	17.00	156	6.00	71	04										
ALASKA SHELF	3	71	13.00	155	44.00	71	04										
ALASKA SHELF	4	71	12.00	155	34.00	71	04										
ALASKA SHELF	5	71	11.00	155	25.00	71	04										
ALASKA SHELF	6	71	9.50	155	16.00	71	04										
ALASKA SHELF	7	71	3.00	154	35.00	71	04										
ALASKA SHELF	8	71	4.00	154	32.00	71	04										
ALASKA SHELF	9	70	54.00	154	29.00	71	04										
ALASKA SHELF	10	70	55.00	153	47.00	71	04										
ALASKA SHELF	11	70	57.00	153	9.00	71	04										
ALASKA SHELF	12	70	54.00	152	35.00	71	04										
ALASKA SHELF	13	70	56.00	152	34.00	71	04										
ALASKA SHELF	14	70	50.00	152	6.00	71	04										
ALASKA SHELF	15	70	36.50	151	52.00	71	04										
ALASKA SHELF	16	70	39.00	151	51.00	71	04										
ALASKA SHELF	17	70	33.00	151	30.00	71	04										
ALASKA SHELF	18	70	26.00	151	6.00	71	04										

* Nominal date; locations approximate.

BOTTLE/CTD DATA SET NUMBER: 71-0031
YEAR:1971 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE	46	85	12.40	88	29.00	71	6	5	20	100	2029		X	X	BOTT		
ALPHA RIDGE	47	85	2.00	89	31.00	71	6	12	13	500	1790		X	X	BOTT		
ALPHA RIDGE	48	84	58.00	88	31.00	71	6	19	14	100	2034		X	X	BOTT		
ALPHA RIDGE	49	84	58.00	88	14.00	71	6	26	13	2000	2042		X	X	BOTT		
ALPHA RIDGE	50	84	47.00	88	25.00	71	7	3	13	100	1979		X	X	BOTT		
ALPHA RIDGE	51	84	42.00	86	48.00	71	7	10	12	500	2008		X	X	BOTT		
ALPHA RIDGE	52	84	36.00	87	30.00	71	7	17	13	100	1913		X	X	BOTT		
ALPHA RIDGE	53	84	33.00	88	22.00	71	7	24	13	1750	1875		X	X	BOTT		
ALPHA RIDGE	54	84	42.00	86	37.00	71	7	31	12	100	2009		X	X	BOTT		
ALPHA RIDGE	55	84	48.00	85	28.00	71	8	7	13	500	2101		X	X	BOTT		
ALPHA RIDGE	56	84	43.00	87	35.00	71	8	13	13	100	2002		X	X	BOTT		
ALPHA RIDGE	57	84	54.00	83	59.00	71	8	21	12	2000	2101		X	X	BOTT		
ALPHA RIDGE	58	84	56.00	81	12.00	71	8	27	12	100	1934		X	X	BOTT		
ALPHA RIDGE	59	84	53.00	85	41.00	71	9	4	13	500	2100		X	X	BOTT		
ALPHA RIDGE	60	84	50.00	85	22.00	71	9	11	13	100	2101		X	X	BOTT		
ALPHA RIDGE	61	84	53.00	85	58.00	71	9	18	18	2000	2102		X	X	BOTT		
ALPHA RIDGE	62	84	53.00	85	58.00	71	9	25	10	100	2102		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 71-0032
YEAR:1971 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE	1	84	39.00	86	0.00	71	11	12	1	530	1900		X	X	BOTT		
ALPHA RIDGE	2	84	37.50	85	31.00	71	11	12	21	1325	1567		X	X	BOTT		
ALPHA RIDGE	3	84	37.00	85	30.00	71	11	13	1	1540	1567		X	X	BOTT		
ALPHA RIDGE	4	84	35.40	85	4.00	71	11	13	21	510	1583		X	X	BOTT		
ALPHA RIDGE	5	84	36.20	85	6.00	71	11	14	1	1560	1583		X	X	BOTT		
ALPHA RIDGE	6	84	36.20	85	6.00	71	11	14	19	950	1570		X	X	BOTT		
ALPHA RIDGE	7	84	36.20	85	6.00	71	11	14	23	240	1570		X	X	BOTT		
ALPHA RIDGE	8	84	35.20	85	0.00	71	11	15	19	510	1566		X	X	BOTT		
ALPHA RIDGE	9	84	35.20	85	0.00	71	11	15	23	560	1566		X	X	BOTT		
ALPHA RIDGE	10	84	35.20	85	0.00	71	11	16	1	1540	1566		X	X	BOTT		
ALPHA RIDGE	11	84	35.40	84	59.00	71	11	16	20	125	1566		X	X	BOTT		
ALPHA RIDGE	12	84	35.70	84	53.00	71	11	17	19	975	1600		X	X	BOTT		
ALPHA RIDGE	13	84	36.00	84	50.00	71	11	18	19	975	1670		X	X	BOTT		
ALPHA RIDGE	14	84	36.30	84	48.00	71	11	19	19	975	1670		X	X	BOTT		
ALPHA RIDGE	15	84	36.50	84	44.00	71	11	20	19	475	1760		X	X	BOTT		
ALPHA RIDGE	16	84	36.50	84	44.00	71	11	20	20	240	1760		X	X	BOTT		
ALPHA RIDGE	17	84	36.80	84	40.00	71	11	21	22	1700	1734		X	X	BOTT		
ALPHA RIDGE	18	84	36.70	84	43.00	71	11	23		975	1755		X	X	BOTT		
ALPHA RIDGE	19	84	36.70	84	43.00	71	11	23	1	240	1755		X	X	BOTT		
ALPHA RIDGE	20	84	36.60	84	42.00	71	11	23	23	270	1755		X	X	BOTT		
ALPHA RIDGE	21	84	36.60	84	42.00	71	11	24		100	1770		X	X	BOTT		
ALPHA RIDGE	22	84	36.60	84	42.00	71	11	24	23	975	1770		X	X	BOTT		
ALPHA RIDGE	23	84	36.90	84	45.00	71	11	26	1	1650	1741		X	X	BOTT		
ALPHA RIDGE	24	84	37.00	83	38.00	71	11	27	7	265	1920		X	X	BOTT		
ALPHA RIDGE	25	84	37.00	83	38.00	71	11	27	19	225	1990		X	X	BOTT		
ALPHA RIDGE	26	84	37.00	83	38.00	71	11	27	20	510	1990		X	X	BOTT		
ALPHA RIDGE	27	84	37.00	83	38.00	71	11	27	22	1200	1993		X	X	BOTT		
ALPHA RIDGE	28	84	37.00	83	38.00	71	11	28	1	1970	1993		X	X	BOTT		
ALPHA RIDGE	29	84	37.00	83	38.00	71	11	28	2	265	1933		X	X	BOTT		
ALPHA RIDGE	30	84	37.00	83	38.00	71	11	28	5	100	1993		X	X	BOTT		
ALPHA RIDGE	31	84	37.50	83	42.00	71	11	30	23	196	1989		X	X	BOTT		
ALPHA RIDGE	32	84	42.00	87	27.00	71	11	9	20	1950	1999		X	X	BOTT		
ALPHA RIDGE	33	84	36.90	84	45.00	71	11	27	2	500	1750		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 71-0033
YEAR:1971 VESSEL/AGENCY: LOUISIANA STATE UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
COLVILLE R	1.1	70	29.00	151	8.00*	71	08	12				X		X	RS5		
COLVILLE R	1.2	70	30.00	151	8.00	71	05	08				X		X	RS5		
COLVILLE R	1.3	70	31.00	151	8.00	71	05	08				X		X	RS5		
COLVILLE R	1.4	70	32.00	151	8.00	71	05	08				X		X	RS5		
COLVILLE R	1.4	70	32.00	151	8.00	71	06	03				X		X	RS5		
COLVILLE R	1.4	70	32.00	151	8.00	71	06	08				X		X	RS5		
COLVILLE R	1.5	70	33.00	151	8.00	71	05	08				X		X	RS5		
COLVILLE R	1.5	70	33.00	151	8.00	71	06	03				X		X	RS5		
COLVILLE R	1.5	70	33.00	151	8.00	71	08	12				X		X	RS5		
COLVILLE R	1.6	70	34.00	151	8.00	71	06	03				X		X	RS5		
COLVILLE R	1.6	70	34.00	151	8.00	71	06	08				X		X	RS5		
COLVILLE R	1.7	70	35.00	151	8.00	71	06	08				X		X	RS5		
COLVILLE R	1.7	70	35.00	151	8.00	71	08	12				X		X	RS5		
COLVILLE R	1.8	70	38.00	151	8.00	71	06	08				X		X	RS5		
COLVILLE R	1.9	70	40.00	151	8.00	71	06	08				X		X	RS5		
COLVILLE R	2.1	70	32.00	150	34.00	71	05	10				X		X	RS5		
COLVILLE R	2.1	70	32.00	150	34.00	71	08	12				X		X	RS5		
COLVILLE R	2.1	70	42.00	150	34.00	71	06	02				X		X	RS5		
COLVILLE R	2.2	70	33.00	150	34.00	71	05	10				X		X	RS5		
COLVILLE R	2.3	70	33.00	150	34.00	71	06	02				X		X	RS5		
COLVILLE R	2.3	70	33.00	150	34.00	71	06	03				X		X	RS5		
COLVILLE R	2.3	70	33.00	150	34.00	71	06	09				X		X	RS5		
COLVILLE R	2.4	70	34.00	150	34.00	71	05	10				X		X	RS5		

COLVILLE R	2.4	70	34.00	150	34.00	71	06	09	X	X RS5
COLVILLE R	2.5	70	35.00	150	34.00	71	06	09	X	X RS5
COLVILLE R	2.6	70	35.00	150	34.00	71	06	02	X	X RS5
COLVILLE R	2.6	70	35.00	150	34.00	71	06	03	X	X RS5
COLVILLE R	2.6	70	35.00	150	34.00	71	06	09	X	X RS5
COLVILLE R	2.6	70	35.00	150	34.00	71	08	12	X	X RS5
COLVILLE R	2.7	70	36.00	150	34.00	71	06	02	X	X RS5
COLVILLE R	2.7	70	36.00	150	34.00	71	06	03	X	X RS5
COLVILLE R	2.8	70	37.00	150	34.00	71	06	02	X	X RS5
COLVILLE R	2.8	70	37.00	150	34.00	71	06	03	X	X RS5
COLVILLE R	2.9	70	39.00	150	34.00	71	06	02	X	X RS5
COLVILLE R	2.9	70	39.00	150	34.00	71	06	03	X	X RS5
COLVILLE R	2.9	70	39.00	150	34.00	71	06	09	X	X RS5
COLVILLE R	2.9	70	39.00	150	34.00	71	08	12	X	X RS5
COLVILLE R	3.1	70	30.00	150	16.00	71	08	12	X	X RS5
COLVILLE R	3.2	70	31.00	150	14.00	71	06	02	X	X RS5
COLVILLE R	3.2	70	31.00	150	14.00	71	06	09	X	X RS5
COLVILLE R	3.2	70	31.00	150	14.00	71	08	12	X	X RS5
COLVILLE R	3.3	70	32.00	150	12.00	71	06	09	X	X RS5
COLVILLE R	3.4	70	33.00	150	10.00	71	05	17	X	X RS5
COLVILLE R	3.4	70	33.00	150	10.00	71	06	02	X	X RS5
COLVILLE R	3.4	70	33.00	150	10.00	71	08	12	X	X RS5
COLVILLE R	3.5	70	35.00	150	9.00	71	05	17	X	X RS5
COLVILLE R	3.5	70	35.00	150	9.00	71	06	02	X	X RS5
COLVILLE R	3.5	70	35.00	150	9.00	71	06	09	X	X RS5
COLVILLE R	3.6	70	35.00	150	9.00	71	08	12	X	X RS5
COLVILLE R	3.7	70	39.00	150	9.00	71	06	09	X	X RS5
COLVILLE R	3.8	70	41.00	150	9.00	71	06	02	X	X RS5
COLVILLE R	3.9	70	44.00	150	9.00	71	06	09	X	X RS5
COLVILLE R	1.10	70	45.00	151	8.00	71	06	08	X	X RS5

* Locations approximate, from figure in report.

BOTTLE/CTD DATA SET NUMBER: 71-0035
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HO HR
PRUDHOE BAY	PB1	70	21.00	148	20.00	71	07*					X		X	RS5	
PRUDHOE BAY	PB2	70	21.00	148	24.00	71	07					X		X	RS5	
PRUDHOE BAY	PB3	70	21.00	148	22.00	71	07					X		X	RS5	
PRUDHOE BAY	PB4	70	21.00	148	16.00	71	07					X		X	RS5	
PRUDHOE BAY	PB5	70	20.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB6	70	19.00	148	22.00	71	07					X		X	RS5	
PRUDHOE BAY	PB7	70	20.00	148	24.00	71	07					X		X	RS5	
PRUDHOE BAY	PB8	70	20.00	148	22.00	71	03	27				X		X	RS5	
PRUDHOE BAY	PB8	70	20.00	148	22.00	71	05	10				X		X	RS5	
PRUDHOE BAY	PB8	70	20.00	148	22.00	71	07					X		X	RS5	
PRUDHOE BAY	PB9	70	22.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB10	70	22.00	148	16.00	71	07					X		X	RS5	
PRUDHOE BAY	PB11	70	22.00	148	14.00	71	07					X		X	RS5	
PRUDHOE BAY	PB12	70	28.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB13	70	30.00	148	16.00	71	07					X		X	RS5	
PRUDHOE BAY	PB14	70	30.00	148	22.00	71	07					X		X	RS5	
PRUDHOE BAY	PB15	70	30.00	148	20.00	71	03	27				X		X	RS5	
PRUDHOE BAY	PB15	70	30.00	148	20.00	71	03	27				X		X	RS5	
PRUDHOE BAY	PB15	70	30.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB16	70	28.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB17	70	26.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB18	70	25.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB19	70	27.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB20	70	23.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB21	70	23.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB22	70	24.00	148	20.00	71	07					X		X	RS5	
PRUDHOE BAY	PB101	70	29.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB102	70	28.00	148	12.00	71	08					X		X	RS5	
PRUDHOE BAY	PB103	70	27.00	148	7.00	71	08					X		X	RS5	
PRUDHOE BAY	PB104	70	27.00	148	2.00	71	08					X		X	RS5	
PRUDHOE BAY	PB105	70	28.00	148	0.00	71	08					X		X	RS5	
PRUDHOE BAY	PB106	70	30.00	147	58.00	71	08					X		X	RS5	
PRUDHOE BAY	PB107	70	30.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB108	70	27.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB109	70	76.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB110	70	25.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB111	70	24.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB112	70	19.00	148	22.00	71	08					X		X	RS5	
PRUDHOE BAY	PB113	70	19.00	148	20.00	71	08					X		X	RS5	
PRUDHOE BAY	PB114	70	20.00	148	20.00	71	08					X		X	RS5	
PRUDHOE BAY	PB115	70	22.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB116	70	23.00	148	19.00	71	08					X		X	RS5	
PRUDHOE BAY	PB117	70	24.00	147	29.00	71	08					X		X	RS5	
PRUDHOE BAY	PB118	70	24.00	147	32.00	71	08					X		X	RS5	
PRUDHOE BAY	PB119	70	24.00	147	29.00	71	08					X		X	RS5	
PRUDHOE BAY	PB120	70	24.00	147	35.00	71	08					X		X	RS5	
PRUDHOE BAY	PB121	70	25.00	147	41.00	71	08					X		X	RS5	
PRUDHOE BAY	PB122	70	25.00	147	37.00	71	08					X		X	RS5	
PRUDHOE BAY	PB123	70	25.00	147	44.00	71	08					X		X	RS5	
PRUDHOE BAY	PB124	70	27.00	147	58.00	71	08					X		X	RS5	
PRUDHOE BAY	PB125	70	28.00	148	15.00	71	08					X		X	RS5	
PRUDHOE BAY	PB201	70	21.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB202	70	21.00	148	25.00	72	08					X		X	RS5	
PRUDHOE BAY	PB203	70	21.00	148	22.00	72	08					X		X	RS5	
PRUDHOE BAY	PB204	70	21.00	148	17.00	72	08					X		X	RS5	
PRUDHOE BAY	PB205	70	20.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB206	70	19.00	148	22.00	72	08					X		X	RS5	
PRUDHOE BAY	PB207	70	20.00	148	25.00	72	08					X		X	RS5	
PRUDHOE BAY	PB208	70	20.00	148	22.00	72	08					X		X	RS5	
PRUDHOE BAY	PB209	70	19.00	148	26.00	72	08					X		X	RS5	
PRUDHOE BAY	PB210	70	22.00	148	16.00	72	08					X		X	RS5	
PRUDHOE BAY	PB212	70	29.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB213	70	30.00	148	16.00	72	08					X		X	RS5	
PRUDHOE BAY	PB215	70	30.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB216	70	28.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB217	70	21.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB218	70	25.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB219	70	27.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB221	70	22.00	148	19.00	72	08					X		X	RS5	
PRUDHOE BAY	PB223	70	24.00	148	32.00	72	08					X		X	RS5	
PRUDHOE BAY	PB224	70	23.00	148	27.00	72	08					X		X	RS5	

PRUDHOE BAY	PB225	70 23.00	148 23.00	72 08					X		X	RS5
PRUDHOE BAY	PB227	70 22.00	148 27.00	72 08					X		X	RS5

* Locations approximate; exact dates unknown.

BOTTLE/CTD DATA SET NUMBER: 71-0040
YEAR:1971 VESSEL/AGENCY: U.S. GEOLOGICAL SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70 24.6	148 23.2	71	08	29		3.5		X		X	RS5		
ALASKAN SHELF		70 20.6	148 23.2	71	08	30		2.6		X		X	RS5		
ALASKAN SHELF		70 27.0	148 15.3	71	08	30		8.5		X		X	RS5		
ALASKAN SHELF		70 30.0	148 00.0	71	08	31		11.3		X		X	RS5		
ALASKAN SHELF		70 26.2	148 00.0	71	08	31		6.7		X		X	RS5		
ALASKAN SHELF		70 22.6	148 00.0	71	08	31		4.6		X		X	RS5		
ALASKAN SHELF		70 23.5	147 45.0	71	08	31		7.6		X		X	RS5		
ALASKAN SHELF		70 22.1	147 30.0	71	08	31		6.7		X		X	RS5		
ALASKAN SHELF		70 18.5	147 30.0	71	09	01		5.5		X		X	RS5		
ALASKAN SHELF		70 14.0	147 30.0	71	09	01		5.0		X		X	RS5		
ALASKAN SHELF		70 16.8	147 15.0	71	09	01		8.5		X		X	RS5		
ALASKAN SHELF		70 11.3	147 02.0	71	09	01		5.2		X		X	RS5		
ALASKAN SHELF		70 12.8	147 47.8	71	09	01		4.0		X		X	RS5		
ALASKAN SHELF		70 16.3	147 00.0	71	09	01		4.9		X		X	RS5		
ALASKAN SHELF		70 23.8	148 29.0	71	09	05		2.6		X		X	RS5		
ALASKAN SHELF		70 26.5	148 30.0	71	09	05		7.0		X		X	RS5		
ALASKAN SHELF		70 28.0	148 45.0	71	09	05		4.6		X		X	RS5		
ALASKAN SHELF		70 31.0	148 45.0	71	09	05		13.7		X		X	RS5		
ALASKAN SHELF		70 29.2	148 30.0	71	09	05		8.8		X		X	RS5		
ALASKAN SHELF		70 31.8	148 30.0	71	09	06		14.6		X		X	RS5		
ALASKAN SHELF		70 34.3	148 45.0	71	09	06		16.8		X		X	RS5		
ALASKAN SHELF		70 35.5	148 30.0	71	09	07		20.4		X		X	RS5		
ALASKAN SHELF		70 30.9	149 00.0	71	09	08		11.0		X		X	RS5		
ALASKAN SHELF		70 34.8	149 00.0	71	09	08		17.8		X		X	RS5		
ALASKAN SHELF		70 38.3	149 00.0	71	09	08		18.3		X		X	RS5		
ALASKAN SHELF		70 43.0	149 22.5	71	09	08		17.0		X		X	RS5		
ALASKAN SHELF		70 47.7	149 45.0	71	09	08		19.2		X		X	RS5		
ALASKAN SHELF		70 43.6	149 45.0	71	09	08		18.0		X		X	RS5		
ALASKAN SHELF		70 39.4	149 45.0	71	09	08		14.6		X		X	RS5		
ALASKAN SHELF		70 34.7	149 45.0	71	09	08		7.6		X		X	RS5		
ALASKAN SHELF		70 33.8	150 07.7	71	09	09		7.6		X		X	RS5		
ALASKAN SHELF		70 35.0	150 30.0	71	09	09		8.5		X		X	RS5		
ALASKAN SHELF		70 40.5	150 30.0	71	09	09		16.2		X		X	RS5		
ALASKAN SHELF		70 46.0	150 30.0	71	09	09		18.0		X		X	RS5		
ALASKAN SHELF		70 52.0	150 30.0	71	09	09		19.8		X		X	RS5		
ALASKAN SHELF		70 44.0	150 07.5	71	09	09		17.1		X		X	RS5		
ALASKAN SHELF		70 29.0	149 06.5	71	09	10		2.1		X		X	RS5		
ALASKAN SHELF		70 31.6	149 26.1	71	09	10		1.5		X		X	RS5		
ALASKAN SHELF		70 31.6	149 45.0	71	09	10		2.1		X		X	RS5		
ALASKAN SHELF		70 34.3	149 22.5	71	09	10		10.4		X		X	RS5		
ALASKAN SHELF		70 32.0	148 18.0	71	09	11		14.0		X		X	RS5		
ALASKAN SHELF		70 34.3	148 05.0	71	09	11		22.0		X		X	RS5		
ALASKAN SHELF		70 30.0	147 30.0	71	09	11		22.6		X		X	RS5		
ALASKAN SHELF		70 25.8	147 36.7	71	09	11		11.0		X		X	RS5		
ALASKAN SHELF		70 24.0	148 15.0	71	09	11		3.4		X		X	RS5		
ALASKAN SHELF		70 28.4	150 08.8	71	09	11		2.7		X		X	RS5		
ALASKAN SHELF		70 34.1	149 58.9	71	09	11		6.7		X		X	RS5		
ALASKAN SHELF		70 19.0	148 19.0	71	09	13		1.0		X		X	RS5		
ALASKAN SHELF		70 18.9	148 20.7	71	09	14		3.2		X		X	RS5		
ALASKAN SHELF		70 20.0	148 22.5	71	09	14		3.2		X		X	RS5		
ALASKAN SHELF		70 20.6	148 25.2	71	09	14		2.7		X		X	RS5		
ALASKAN SHELF		70 21.3	148 27.1	71	09	15		1.5		X		X	RS5		
ALASKAN SHELF		70 22.8	148 31.0	71	09	15		1.7		X		X	RS5		
ALASKAN SHELF		70 23.8	148 31.2	71	09	15		2.6		X		X	RS5		
ALASKAN SHELF		70 24.6	148 30.1	71	09	15		4.1		X		X	RS5		
ALASKAN SHELF		70 25.3	148 30.1	71	09	15		5.5		X		X	RS5		
ALASKAN SHELF		70 26.0	148 29.3	71	09	16		6.8		X		X	RS5		
ALASKAN SHELF		70 28.9	148 12.6	71	09	17		2.4		X		X	RS5		
ALASKAN SHELF		70 17.9	147 49.4	71	09	19		.6		X		X	RS5		
ALASKAN SHELF		70 18.0	147 48.6	71	09	19		.9		X		X	RS5		
ALASKAN SHELF		70 18.1	147 47.9	71	09	19		2.1		X		X	RS5		
ALASKAN SHELF		70 18.8	147 47.5	71	09	19		3.3		X		X	RS5		
ALASKAN SHELF		70 19.9	147 45.0	71	09	19		4.9		X		X	RS5		
ALASKAN SHELF		70 20.6	147 40.8	71	09	19		6.1		X		X	RS5		
ALASKAN SHELF		70 21.6	147 37.0	71	09	19		8.5		X		X	RS5		
ALASKAN SHELF		70 23.4	147 32.0	71	09	19		7.6		X		X	RS5		

ALASKAN SHELF	70 20.9	147 29.9	71 09 19	7.3	X	X	RS5
ALASKAN SHELF	70 18.3	147 26.1	71 09 19	7.0	X	X	RS5
ALASKAN SHELF	70 15.7	147 23.0	71 09 19	6.1	X	X	RS5
ALASKAN SHELF	70 14.0	147 21.0	71 09 19	3.7	X	X	RS5

BOTTLE/CTD DATA SET NUMBER: 71-0042
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT MO HR
BARROW		71 20.5	156 39.4	71 05 13	0.		X			BOTT	
BARROW		71 20.5	156 39.4	71 05 15	0.		X			BOTT	
BARROW		71 20.5	156 39.4	71 05 18	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 19	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 22	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 24	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 25	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 26	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 27	0.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 28	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 29	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 30	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 05 31	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 02	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 05	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 06	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 07	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 08	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 09	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 10	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 11	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 12	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 14	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 15	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 17	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 18	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 19	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 21	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 22	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 23	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 24	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 25	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 26	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 28	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 29	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 06 30	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 01	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 02	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 03	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 08	3.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 09	3.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 10	3.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 12	3.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 13	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 15	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 16	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 17	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 19	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 20	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 24	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 07 28	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 06	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 07	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 09	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 10	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 12	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 13	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 14	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 23	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 25	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 26	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 27	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 28	5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 08 30	5.		X		X	BOTT	

BARROW		71 20.5	156 39.4	71 09 08		5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 09 09		5.		X		X	BOTT	
BARROW		71 20.5	156 39.4	71 09 01		10.		X		X	BOTT	
PRUDHOE BAY		70 29.5	148 21.5	71 05 10		0.		X		X	BOTT	
PRUDHOE BAY		70 21.9	148 22.0	71 05 10		0.		X		X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 71-0043
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
HARRISON BAY		70 50.0	151 35.	71 06 02	0		X		X	BOTT		
SMITH BAY		70 54.0	154 17.	71 06 02	0		X		X	BOTT		
DEASE INLET		71 05.0	155 24.	71 06 02	0		X		X	BOTT		
PEARD BAY		70 50.0	158 58.	71 06 03	0		X		X	BOTT		
WAINWRIGHT		70 21.0	160 00.	71 06 03	0		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 71-0044
YEAR:1971 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW	NARL	71 20.0	156 41.1	71 03 13	0.	8.	X		X	BOTT		
BARROW	NARL	71 20.0	156 41.1	71 03 15	0.	8.	X		X	BOTT		
BARROW	NARL	71 20.0	156 41.1	71 03 16	0.	8.	X		X	BOTT		
BARROW	NARL	71 20.0	156 41.1	71 03 17	0.	8.	X		X	BOTT		
BARROW	NARL	71 20.0	156 41.1	71 03 18	0.	8.	X		X	BOTT		
		73 30.0	153 00.0	71 03 25	9.		X					
BARROW		71 34.0	156 00.0	71 03 25	0.		X			BOTT		
CHUKCHI SEA		71 07.0	159 24.0	71 03 22	0.		X		X	BOTT		
PRUDHOE BAY	PB	70 21.9	148 22.0	71 03 27	0.		X		X	BOTT		
PRUDHOE BAY	PB	70 29.0	148 21.5	71 03 27	0.		X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 72-0027
YEAR:1972 VESSEL/AGENCY: GLACIER, WEBSEC '72

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	1	70 45.00	143 31.00	72 8 5 9	440	485	X		X	CTD		
	2	70 51.70	143 45.40	72 8 5 23	734	925	X		X	CTD		
	3	70 51.90	144 31.80	72 8 6 14	506	513	X		X	CTD		
	4	70 43.00	144 32.00	72 8 6 23	291	311	X		X	CTD		
	5	70 38.80	144 33.00	72 8 7 9	118	128	X		X	CTD		
	6	71 2.20	145 32.00	72 8 10 10	1029	1061	X		X	CTD		
	7	71 9.00	146 29.00	72 8 11 12	1532	1846	X		X	CTD		
	8	71 3.00	146 29.00	72 8 12 12	1139	1149	X		X	CTD		
	9	71 2.00	147 30.00	72 8 15 23	83	135	X		X	CTD		
	10	71 5.00	147 35.00	72 8 16 23	985	1086	X		X	CTD		
	11	71 13.00	148 29.00	72 8 17 17	937	955	X		X	CTD		
	12	71 13.00	148 38.60	72 8 18 4	502	492	X		X	CTD		
	13	71 9.00	148 36.00	72 8 18 17	204	225	X		X	CTD		
	14	71 16.10	150 4.10	72 8 25 15	409	507	X		X	CTD		
	15	71 17.90	149 59.00	72 8 26 8	751	1038	X		X	CTD		
	16	71 34.00	150 1.00	72 8 27 3	1862	2130	X		X	CTD		
	17	71 41.30	151 2.20	72 8 28 9	2002	2194	X		X	CTD		
	18	71 26.10	151 58.30	72 8 29 12	1000	940	X		X	CTD		

	19	71	21.50	150	46.50	72	8	30	5	389	360	X		X	CTD
	20	71	54.60	152	4.70	72	9	3	7	1892	2126	X		X	CTD
	21	71	39.70	152	3.00	72	9	4	3	939	1046	X		X	CTD
ALASKAN SHELF	22	70	13.30	143	6.30	72	8	4	12	20	26	X		X	CTD
ALASKAN SHELF	23	70	22.90	143	29.60	72	8	4	17	40	49	X		X	CTD
	24	70	32.50	143	33.90	72	8	5	1	50	55	X		X	CTD
	25	70	45.00	143	31.00	72	8	5	9	475	485	X		X	CTD
	26	70	51.70	143	45.40	72	8	5	23	900	925	X		X	CTD
	27	70	51.90	144	31.80	72	8	6	14	485	513	X		X	CTD
	28	70	43.00	144	32.00	72	8	6	23	280	311	X		X	CTD
	29	70	38.80	144	33.00	72	8	7	9	115	128	X		X	CTD
	30	70	30.80	144	27.00	72	8	7	14	45	50	X		X	CTD
ALASKAN SHELF	31	70	19.30	144	46.50	72	8	8	2	30	34	X		X	CTD
ALASKAN SHELF	32	70	9.50	144	22.70	72	8	8	12	18	20	X		X	CTD
CAMDEN BAY	33	70	6.00	145	30.00	72	8	8	19	10	15	X		X	CTD
ALASKAN SHELF	34	70	13.20	145	30.60	72	8	8	22	20	25	X		X	CTD
ALASKAN SHELF	35	70	23.50	145	35.00	72	8	9	6	35	40	X		X	CTD
ALASKAN SHELF	36	70	33.20	145	39.90	72	8	9	9	45	51	X		X	CTD
ALASKAN SHELF	37	70	45.50	145	25.40	72	8	9	14	90	93	X		X	CTD
	38	70	55.00	145	25.00	72	8	9	22	350	388	X		X	CTD
	39	71	2.20	145	32.00	72	8	10	10	1000	1061	X		X	CTD
	40	71	9.00	146	29.00	72	8	11	12	1800	1846	X		X	CTD
	41	71	3.00	146	29.00	72	8	12	12	975	996	X		X	CTD
	42	70	58.30	146	30.10	72	8	13	3	450	464	X		X	CTD
	43	70	55.50	143	30.00	72	8	13	11	95	101	X		X	CTD
ALASKAN SHELF	44	70	40.00	146	40.00	72	8	13	19	40	45	X		X	CTD
ALASKAN SHELF	45	70	34.00	146	30.00	72	8	14	4	30	36	X		X	CTD
ALASKAN SHELF	46	70	21.60	146	30.00	72	8	14	12	20	25	X		X	CTD
ALASKAN SHELF	47	70	19.60	146	30.30	72	8	14	16	14	16	X		X	CTD
ALASKAN SHELF	48	70	29.20	147	37.10	72	8	15	2	13	15	X		X	CTD
ALASKAN SHELF	49	70	31.40	147	33.10	72	8	15	7	25	28	X		X	CTD
ALASKAN SHELF	50	70	42.70	147	29.50	72	8	15	14	40	44	X		X	CTD
	51	70	51.50	147	31.00	72	8	15	19	40	55	X		X	CTD
	52	71	2.00	147	30.00	72	8	15	23	12[illegible]	135	X		X	CTD
	53	71	3.00	147	29.60	72	8	16	5	475	502	X		X	CTD
	54	71	5.00	147	35.00	72	8	16	18	500	1086	X		X	CTD
	55	71	5.00	147	35.00	72	8	16	23	1000	1086	X		X	CTD
	56	71	13.00	148	29.00	72	8	17	17	900	955	X		X	CTD
	57	71	13.00	148	34.60	72	8	18	4	480	492	X		X	CTD
	58	71	9.00	148	36.00	72	8	18	17	85	92	X		X	CTD
	59	71	4.50	148	29.20	72	8	19	6	45	49	X		X	CTD
	60	70	57.20	148	30.00	72	8	19	23	35	42	X		X	CTD
ALASKAN SHELF	61	70	47.00	148	30.00	72	8	20	6	35	40	X		X	CTD
ALASKAN SHELF	62	70	41.80	148	29.70	72	8	20	13	25	27	X		X	CTD
ALASKAN SHELF	63	70	35.00	148	41.60	72	8	20	21	10	15	X		X	CTD
ALASKAN SHELF	64	70	35.00	148	41.60	72	8	21		15	15	X		X	CTD
ALASKAN SHELF	65	70	35.00	148	41.60	72	8	21	3	15	15	X		X	CTD
ALASKAN SHELF	66	70	35.00	148	41.60	72	8	21	6	15	15	X		X	CTD
ALASKAN SHELF	67	70	35.00	148	41.60	72	8	21	9	15	15	X		X	CTD
ALASKAN SHELF	68	70	35.00	148	41.60	72	8	21	12	15	15	X		X	CTD
ALASKAN SHELF	69	70	35.00	148	41.60	72	8	21	15	15	15	X		X	CTD
ALASKAN SHELF	70	70	35.00	148	41.60	72	8	21	18	15	15	X		X	CTD
ALASKAN SHELF	71	70	35.00	148	41.60	72	8	21	21	15	15	X		X	CTD
ALASKAN SHELF	72	70	35.00	148	41.60	72	8	22		15	15	X		X	CTD
ALASKAN SHELF	73	70	49.50	149	30.00	72	8	22	8	15	28	X		X	CTD
	74	70	58.00	149	30.00	72	8	22	14	25	32	X		X	CTD
	75	71	7.80	149	37.10	72	8	22	19	40	45	X		X	CTD
	76	71	12.00	149	31.80	72	8	23	4	100	108	X		X	CTD
HARRISON BAY	77	70	48.00	150	4.00	72	8	23	18	15	18	X		X	CTD
ALASKAN SHELF	78	70	52.50	150	0.00	72	8	24	2	20	24	X		X	CTD
ALASKAN SHELF	79	71	0.00	150	0.00	72	8	24	11	25	29	X		X	CTD
ALASKAN SHELF	80	71	11.00	150	0.00	72	8	24	20	45	48	X		X	CTD
ALASKAN SHELF	81	71	12.40	150	1.20	72	8	25	6	90	98	X		X	CTD
	82	71	16.10	150	4.10	72	8	25	15	450	507	X		X	CTD
	83	71	17.90	149	59.00	72	8	26	8	500	1038	X		X	CTD
	84	71	17.90	149	59.00	72	8	26	14	900	1038	X		X	CTD
	85	71	34.00	150	1.00	72	8	27	3	1900	2130	X		X	CTD
	86	71	41.30	151	2.20	72	8	28	9	2000	2194	X		X	CTD
	87	71	26.10	151	58.30	72	8	29	12	1000	940	X		X	CTD
	88	71	21.50	150	46.50	72	8	30	5	300	360	X		X	CTD
	89	71	17.20	150	52.20	72	8	30	19	75	80	X		X	CTD
ALASKAN SHELF	90	71	12.20	150	0.00	72	8	31	5	50	54	X		X	CTD
ALASKAN SHELF	91	71	5.50	150	56.90	72	8	31	15	20	26	X		X	CTD
ALASKAN SHELF	92	70	52.70	150	59.90	72	9	1		15	15	X		X	CTD
ALASKAN SHELF	93	70	50.80	150	58.00	72	9	1	6	15	19	X		X	CTD
ALASKAN SHELF	94	70	58.80	150	58.00	72	9	1	12	15	15	X		X	CTD
ALASKAN SHELF	95	70	53.80	150	58.00	72	9	1	15	15	15	X		X	CTD
ALASKAN SHELF	96	70	58.80	150	58.00	72	9	1	18	15	15	X		X	CTD
ALASKAN SHELF	97	70	53.80	150	58.00	72	9	1	22	15	15	X		X	CTD
ALASKAN SHELF	98	70	58.80	150	58.80	72	9	2	2	15	15	X		X	CTD
ALASKAN SHELF	99	70	58.80	150	58.00	72	9	2	6	15	15	X		X	CTD
ALASKAN SHELF	100	70	58.80	150	58.00	72	9	2	10	15	15	X		X	CTD
ALASKAN SHELF	101	70	58.80	150	58.00	72	9	2	14	15	15	X		X	CTD

	102	71	54.60	152	4.70	72	9	3	7	1800	2126	X		X	CTD
	103	71	39.70	152	3.00	72	9	4	3	1000	1046	X		X	CTD
	104	71	37.40	152	8.50	72	9	4	11	500	684	X		X	CTD
	105	71	26.90	152	8.40	72	9	4	21	220	247	X		X	CTD
	106	71	22.50	152	13.00	72	9	5	2	85	90	X		X	CTD
	107	71	16.10	152	13.00	72	9	5	8	45	49	X		X	CTD
ALASKAN SHELF	108	71	5.50	152	0.00	72	9	5	14	15	25	X		X	CTD
ALASKAN SHELF	109	71	8.00	152	6.00	72	9	5	17	10	16	X		X	CTD
ALASKAN SHELF	110	71	10.30	153	50.00	72	9	6	5	15	18	X		X	CTD
ALASKAN SHELF	111	71	13.00	153	36.00	72	9	6	8	20	29	X		X	CTD
ALASKAN SHELF	112	71	19.50	153	32.00	72	9	6	13	40	48	X		X	CTD

BOTTLE/CTD DATA SET NUMBER: 72-0028
YEAR:1972 VESSEL/AGENCY: NATCHIK, WEBSEC '72

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70 48.	152 00.*	72 08*								
ALASKAN SHELF		70 45.	151 30.	72 08								
ALASKAN SHELF		70 41.	151 00.	72 08								
ALASKAN SHELF		70 42.	150 30.	72 08								
ALASKAN SHELF		70 37.	150 30.	72 08								
ALASKAN SHELF		70 34.	150 30.	72 08								
ALASKAN SHELF		70 31.	150 14.	72 08								
ALASKAN SHELF		70 49.	149 58.	72 08								
ALASKAN SHELF		70 45.	150 00.	72 08								
ALASKAN SHELF		70 40.	150 00.	72 08								
ALASKAN SHELF		70 37.	150 00.	72 08								
ALASKAN SHELF		70 32.	150 00.	72 08								
ALASKAN SHELF		70 47.	149 35.	72 08								
ALASKAN SHELF		70 43.	149 35.	72 08								
ALASKAN SHELF		70 40.	149 35.	72 08								
ALASKAN SHELF		70 36.	149 35.	72 08								
ALASKAN SHELF		70 29.	149 08.	72 08								
ALASKAN SHELF		70 30.	149 00.	72 08								
ALASKAN SHELF		70 26.	148 45.	72 08								
ALASKAN SHELF		70 30.	148 04.	72 08								
ALASKAN SHELF		70 27.	148 12.	72 08								
ALASKAN SHELF		70 25.	148 10.	72 03								
ALASKAN SHELF		70 30.	147 47.	72 08								
ALASKAN SHELF		70 26.	147 50.	72 08								
ALASKAN SHELF		70 23.	147 53.	72 08								
ALASKAN SHELF		70 18.	147 47.	72 08								
ALASKAN SHELF		70 13.	147 40.	72 08								
ALASKAN SHELF		70 28.	147 33.	72 08								
ALASKAN SHELF		70 24.	147 34.	72 08								
ALASKAN SHELF		70 22.	147 34.	72 08								
ALASKAN SHELF		70 25.	147 19.	72 08								
ALASKAN SHELF		70 20.	147 04.	72 08								
ALASKAN SHELF		70 13.	147 00.	72 08								
ALASKAN SHELF		70 17.	146 45.	72 08								
ALASKAN SHELF		70 17.	146 30.	72 08								
ALASKAN SHELF		70 12.	146 30.	72 08								
ALASKAN SHELF		70 15.	146 18.	72 08								
ALASKAN SHELF		70 12.	146 18.	72 08								
ALASKAN SHELF		70 10.	146 00.	72 08								
ALASKAN SHELF		70 13.	145 54.	72 08								
ALASKAN SHELF		70 09.	145 41.	72 08								

*Locations approximate; nominal date.

BOTTLE/CTD DATA SET NUMBER: 72-0029
YEAR:1972 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON	SL	70 32.00	149 51.00*	72 07 29	2.5		X		X	RS5		

*Approximate locations.

SIMPSON LAGOON	SL	70	32.00	149	51.00	72	08	05	2.5	X	X	RS5	
SIMPSON LAGOON	SL	70	32.00	149	51.00	72	08	12	2.5	X	X	RS5	
SIMPSON LAGOON	SL	70	32.00	149	51.00	72	08	19	2.5	X	X	RS5	
SIMPSON LAGOON	SL	70	32.00	149	51.00	72	08	26	2.5	X	X	RS5	
SIMPSON LAGOON	SL	70	32.00	149	51.00	72	09	14	2.5	X	X	RS5	
SIMPSON LAGOON	BFS	70	34.50	149	36.00	72	08	01	6.0	X	X	RS5	
SIMPSON LAGOON	BFS	70	34.50	149	36.00	72	08	15	6.0	X	X	RS5	
SIMPSON LAGOON	BFS	70	34.50	149	36.00	72	08	29	6.0	X	X	RS5	

BOTTLE/CTD DATA SET NUMBER: 72-0030
YEAR:1972 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW		70	50.80	159	34.00	72	07	28	11	30		X		X			
BARROW		70	52.70	159	37.30	72	07	24	11	33		X		X			
BARROW		70	54.00	159	37.00	72	08	14	14	26		X		X			
BARROW		70	54.00	159	38.50	72	07	24	12	34		X		X			
BARROW		70	54.60	159	40.00	72	07	28	13	41		X		X			
BARROW		70	56.00	159	49.00	72	07	24	14	41		X		X			
BARROW		70	56.20	159	34.60	72	08	05	14	45		X		X			
BARROW		70	56.80	159	46.20	72	07	28	13	38		X		X			
BARROW		70	57.00	159	42.00	72	08	14	13	32		X		X			
BARROW		70	57.20	158	28.60	72	08	07	13	44		X		X			
BARROW		70	58.10	159	49.40	72	07	24	15	45		X		X			
BARROW		70	59.00	159	50.00	72	07	28	15	56		X		X			
BARROW		70	59.50	159	49.00	72	08	14	12	58		X		X			
BARROW		71	32.00	157	30.00	72	08	13	19	30		X		X			
BARROW		71	32.00	157	30.00	72	08	13	20	48		X		X			
BARROW		71	0.60	159	55.00	72	07	24	16	57		X		X			
BARROW		71	1.40	159	55.00	72	07	28	15	55		X		X			
BARROW		71	1.80	159	25.80	72	08	07	14	62		X		X			
BARROW		71	2.10	159	34.20	72	08	05	13	65		X		X			
BARROW		71	3.00	160	0.00	72	07	24	17	51		X		X			
BARROW		71	5.00	160	0.00	72	08	14	10	65		X		X			
BARROW		71	6.00	159	35.00	72	08	05	16	62		X		X			
BARROW		71	6.20	159	22.00	72	08	07	15	63		X		X			
BARROW		71	11.90	159	29.60	72	08	05	17	55		X		X			
BARROW		71	12.00	159	16.90	72	08	07	16	65		X		X			
BARROW		71	16.20	159	14.50	72	08	07	18	65		X		X			
BARROW		71	18.70	159	36.00	72	08	05	18	35		X		X			
BARROW		71	19.00	159	56.00	72	07	28	22	35		X		X			
BARROW		71	20.00	158	30.00	72	08	08		60		X		X	CTD		
BARROW		71	21.00	158	10.00	72	08	09		65		X		X	CTD		
BARROW		71	21.20	159	7.70	72	08	07	19	55		X		X			
BARROW		71	21.40	157	20.00	72	08	05	02	38				X			
BARROW		71	21.70	157	28.00	72	08	05	01	35				X			
BARROW		71	21.80	157	39.00	72	08	05	01	60				X			
BARROW		71	22.00	157	41.00	72	08	14	07	35		X		X			
BARROW		71	22.00	159	38.00	72	08	05	20	50		X		X			
BARROW		71	22.70	157	46.50	72	08	05	01	60				X			
BARROW		71	23.00	156	46.00	72	07	20	23	41		X		X			
BARROW		71	23.00	157	42.00	72	08	08	01	65		X		X			
BARROW		71	23.00	157	57.00	72	08	05	00	60				X			
BARROW		71	23.00	158	33.00	72	08	07	22	65		X		X			
BARROW		71	23.00	158	46.00	72	08	07		55		X		X	CTD		
BARROW		71	23.50	158	7.00	72	08	05	00	60				X			
BARROW		71	23.80	158	0.00	72	08	08	00	65		X		X			
BARROW		71	24.00	156	50.30	72	08	13	14	50		X		X			
BARROW		71	24.00	158	16.00	72	08	07	23	65		X		X			
BARROW		71	24.50	158	47.00	72	08	07	21	53		X		X			
BARROW		71	24.50	159	44.00	72	08	04	23	39		X		X			
BARROW		71	24.60	156	43.10	72	07	24	02	54		X		X			
BARROW		71	24.80	158	23.00	72	08	05	00	60				X			
BARROW		71	25.00	159	5.00	72	08	06		50		X		X	CTD		
BARROW		71	26.00	156	51.00	72	07	21	03	50		X		X			
BARROW		71	26.20	158	59.00	72	08	04	22	53		X		X			
BARROW		71	27.00	157	24.00	72	08	10		65		X		X	CTD		
BARROW		71	27.00	159	16.00	72	08	05		50		X		X	CTD		
BARROW		71	27.00	159	25.00	72	08	04		50		X		X	CTD		
BARROW		71	27.00	159	30.00	72	07	29	00	50		X		X			
BARROW		71	27.00	159	40.00	72	08	05	21	50		X		X			
BARROW		71	27.20	159	13.60	72	08	04	21	51		X		X			
BARROW		71	27.50	159	15.60	72	08	04	20	50		X		X			

BARROW	71	27.80	156	57.60	72	07	21	06	56	X	X	
BARROW	71	28.80	157	1.50	72	08	13	15	41	X	X	
BARROW	71	29.00	156	55.00	72	07	21	15	65	X	X	
BARROW	71	29.00	159	28.00	72	08	03		50	X	X	CTD
BARROW	71	30.80	159	1.60	72	07	29	01	41	X	X	
BARROW	71	32.20	157	9.00	72	08	13	17	55	X	X	
BARROW	71	32.50	157	48.60	72	08	14	04	48	X	X	
BARROW	71	34.00	156	53.00	72	07	22	17	65	X	X	
BARROW	71	34.00	156	53.00	72	07	22	20	65	X	X	
BARROW	71	34.00	156	53.00	72	07	23	01	65	X	X	
BARROW	71	34.00	156	53.00	72	07	23	04	65	X	X	
BARROW	71	35.00	156	54.00	72	07	23	13	65	X	X	
BARROW	71	39.30	159	20.80	72	07	29	05	51	X	X	

BOTTLE/CTD DATA SET NUMBER: 72-0032
YEAR:1972 VESSEL/AGENCY: USGS:LOON,NATCHIK&GLACIER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70	24.5	148	40.9	72	05	21		1.0		X		X	RS5		
ALASKAN SHELF		70	44.8	148	44.8	72	05	21		1.3		X		X	RS5		
ALASKAN SHELF		70	25.15	148	44.7	72	05	21		1.4		X		X	RS5		
ALASKAN SHELF		70	24.72	148	40.6	72	05	22		1.4		X		X	RS5		
ALASKAN SHELF		70	25.08	148	34.3	72	05	22		1.0		X		X	RS5		
ALASKAN SHELF		70	25.32	148	34.5	72	05	22		1.5		X		X	RS5		
ALASKAN SHELF		70	26.09	148	39.8	72	05	22		3.4		X		X	RS5		
ALASKAN SHELF		70	25.35	148	44.6	72	05	23		1.5		X		X	RS5		
ALASKAN SHELF		70	25.60	148	44.5	72	05	23		1.3		X		X	RS5		
ALASKAN SHELF		70	26.52	148	44.1	72	05	23		2.2		X		X	RS5		
ALASKAN SHELF		70	25.60	148	42.7	72	05	23		1.2		X		X	RS5		
ALASKAN SHELF		70	26.55	148	45.8	72	05	24		1.8		X		X	RS5		
ALASKAN SHELF		70	26.52	148	46.0	72	05	24		3.2		X		X	RS5		
ALASKAN SHELF		70	26.50	148	46.1	72	05	24		2.9		X		X	RS5		
ALASKAN SHELF		70	26.50	148	46.1	72	05	24		3.4		X		X	RS5		
ALASKAN SHELF		70	27.55	148	43.5	72	05	28		5.1		X		X	RS5		
ALASKAN SHELF		70	28.25	148	43.8	72	05	28		6.4		X		X	RS5		
ALASKAN SHELF		70	26.41	148	50.5	72	05	28		1.0		X		X	RS5		
ALASKAN SHELF		70	26.86	148	50.0	72	05	28		1.8		X		X	RS5		
ALASKAN SHELF		70	27.26	148	48.9	72	05	28		1.7		X		X	RS5		
ALASKAN SHELF		70	26.45	148	54.0	72	05	29		2.0		X		X	RS5		
ALASKAN SHELF		70	27.48	148	55.0	72	05	29		2.0		X		X	RS5		
ALASKAN SHELF		70	26.30	148	46.8	72	05	30		2.4		X		X	RS5		
ALASKAN SHELF		70	26.19	148	46.9	72	05	30		2.0		X		X	RS5		
ALASKAN SHELF		70	26.18	148	46.3	72	05	30		1.7		X		X	RS5		
ALASKAN SHELF		70	26.90	148	47.4	72	05	30		1.9		X		X	RS5		
ALASKAN SHELF		70	26.95	148	47.4	72	05	30		2.2		X		X	RS5		
ALASKAN SHELF		70	25.80	148	31.8	72	06	01		4.4		X		X	RS5		
ALASKAN SHELF		70	24.43	148	46.0	72	06	01		0.0		X		X	RS5		
ALASKAN SHELF		70	27.73	148	46.8	72	06	07		5.1		X		X	RS5		
ALASKAN SHELF		70	27.55	148	43.6	72	06	07		5.0		X		X	RS5		
ALASKAN SHELF		70	29.26	148	43.0	72	06	07		4.5		X		X	RS5		
ALASKAN SHELF		70	30.15	148	42.2	72	06	07		5.5		X		X	RS5		
ALASKAN SHELF		70	31.31	148	41.3	72	06	07		12.0		X		X	RS5		
ALASKAN SHELF		70	26.08	148	39.5	72	06	07		3.0		X		X	RS5		
ALASKAN SHELF		70	25.09	148	33.6	72	06	07		3.7		X		X	RS5		
ALASKAN SHELF		70	23.10	148	31.8	72	06	07		4.0		X		X	RS5		
ALASKAN SHELF		70	26.58	148	38.7	72	06	09		5.0		X		X	RS5		
ALASKAN SHELF		70	27.24	148	35.1	72	06	09		8.1		X		X	RS5		
ALASKAN SHELF		70	27.65	148	32.3	72	06	09		9.1		X		X	RS5		
ALASKAN SHELF		70	28.02	148	28.4	72	06	09		8.0		X		X	RS5		
ALASKAN SHELF		70	30.80	148	35.7	72	06	09		12.0		X		X	RS5		
ALASKAN SHELF		70	26.50	148	29.6	72	06	09		10.5		X		X	RS5		
ALASKAN SHELF		70	27.50	148	43.8	72	06	09		4.0		X		X	RS5		
ALASKAN SHELF		70	28.33	148	43.4	72	08	05		19.0		X		X	RS5		
ALASKAN SHELF		70	26.38	148	59.3	72	08	07		1.0		X		X	RS5		
ALASKAN SHELF		70	26.57	148	34.3	72	08	28		7.0		X		X	RS5		
ALASKAN SHELF		70	25.92	148	34.5	72	08	28		5.5		X		X	RS5		
ALASKAN SHELF		70	25.32	148	34.6	72	08	28		3.5		X		X	RS5		
ALASKAN SHELF		70	26.55	148	45.7	72	06	02		0.0		X		X	RS5		
ALASKAN SHELF		70	26.09	148	37.3	72	06	02		4.3		X		X	RS5		
ALASKAN SHELF		70	25.80	148	47.6	72	08	22		1.8		X		X	RS5		
ALASKAN SHELF		70	28.20	148	53.3	72	08	22		2.1		X		X	RS5		
ALASKAN SHELF		70	29.00	149	03.3	72	08	22		3.0		X		X	RS5		
ALASKAN SHELF		70	27.20	148	10.3	72	08	23		7.3		X		X	RS5		

ALASKAN SHELF	70	25.20	148	10.2	72	08	23	5.5	X	X	RS5
ALASKAN SHELF	70	22.80	148	10.8	72	08	23	2.4	X	X	RS5
ALASKAN SHELF	70	21.40	147	56.7	72	08	24	3.7	X	X	RS5
ALASKAN SHELF	70	23.80	147	53.3	72	08	24	6.0	X	X	RS5
ALASKAN SHELF	70	26.10	147	52.2	72	08	24	7.9	X	X	RS5
ALASKAN SHELF	70	27.10	147	54.0	72	08	24	7.3	X	X	RS5
ALASKAN SHELF	70	30.00	147	45.0	72	08	25	17.0	X	X	RS5
ALASKAN SHELF	70	31.30	148	04.2	72	08	26	16.0	X	X	RS5
ALASKAN SHELF	70	22.10	147	32.1	72	08	26	8.0	X	X	RS5
ALASKAN SHELF	70	18.10	147	37.0	72	08	26	6.0	X	X	RS5
ALASKAN SHELF	70	14.70	147	41.8	72	08	26	2.7	X	X	RS5
ALASKAN SHELF	70	13.60	147	00.0	72	08	27	6.0	X	X	RS5
ALASKAN SHELF	70	20.30	147	04.1	72	08	27	13.0	X	X	RS5
ALASKAN SHELF	70	16.30	146	45.5	72	08	27	8.0	X	X	RS5
ALASKAN SHELF	70	16.00	146	30.0	72	08	27	13.4	X	X	RS5
ALASKAN SHELF	70	14.40	146	15.0	72	08	28	13.4	X	X	RS5
ALASKAN SHELF	70	45.00	150	00.0	72	08	31	20.0	X	X	RS5
ALASKAN SHELF	70	49.00	150	00.0	72	08	31	23.0	X	X	RS5
ALASKAN SHELF	70	37.20	149	34.0	72	09	03	16.0	X	X	RS5
ALASKAN SHELF	70	40.50	149	33.0	72	09	03	21.0	X	X	RS5
ALASKAN SHELF	70	43.30	149	32.2	72	09	03	20.0	X	X	RS5
ALASKAN SHELF	70	45.80	149	32.0	72	09	04	21.0	X	X	RS5
ALASKAN SHELF	70	31.70	150	15.0	72	09	04	3.7	X	X	RS5
ALASKAN SHELF	70	33.00	150	00.5	72	09	04	4.9	X	X	RS5
ALASKAN SHELF	70	37.50	150	00.0	72	09	04	14.0	X	X	RS5
ALASKAN SHELF	70	41.00	150	00.0	72	09	04	16.0	X	X	RS5
ALASKAN SHELF	70	34.00	150	30.0	72	09	05	6.0	X	X	RS5
ALASKAN SHELF	70	38.50	150	30.0	72	09	05	14.0	X	X	RS5
ALASKAN SHELF	70	42.50	150	30.0	72	09	05	18.0	X	X	RS5
ALASKAN SHELF	70	40.00	151	00.0	72	09	06	14.0	X	X	RS5
ALASKAN SHELF	70	45.00	151	30.0	72	09	06	12.0	X	X	RS5
ALASKAN SHELF	70	48.00	152	00.0	72	09	06	7.0	X	X	RS5

BOTTLE/CTD DATA SET NUMBER: 72-0035
YEAR:1972 VESSEL/AGENCY: AIDJEX PILOT

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	75	16.80	147	40.80	72	3	13	18	1000			X	X	BOTT		
CANADA BASIN	2	75	16.80	147	41.60	72	3	14	6	1000			X	X	BOTT		
CANADA BASIN	3	75	16.60	147	43.50	72	3	14	18	1000			X	X	BOTT		
CANADA BASIN	4	75	16.80	147	45.50	72	3	15	6	1000			X	X	BOTT		
CANADA BASIN	5	75	16.80	147	45.00	72	3	15	18	1000			X	X	BOTT		
CANADA BASIN	6	75	16.50	147	46.10	72	3	16	6	1000			X	X	BOTT		
CANADA BASIN	7	75	15.80	147	48.30	72	3	16	18	1000			X	X	BOTT		
CANADA BASIN	8	75	14.80	147	53.10	72	3	17	6	1000			X	X	BOTT		
CANADA BASIN	9	75	14.00	147	56.90	72	3	17	18	1000			X	X	BOTT		
CANADA BASIN	10	75	13.60	148	1.70	72	3	18	6	1000			X	X	BOTT		
CANADA BASIN	11	75	13.90	148	4.70	72	3	18	18	1000			X	X	BOTT		
CANADA BASIN	12	75	14.60	148	10.30	72	3	19	6	1000			X	X	BOTT		
CANADA BASIN	13	75	15.00	148	13.90	72	3	19	18	1000			X	X	BOTT		
CANADA BASIN	14	75	14.90	148	14.60	72	3	20	6	1000			X	X	BOTT		
CANADA BASIN	15	75	14.80	148	14.30	72	3	20	18	1000			X	X	BOTT		
CANADA BASIN	16	75	14.30	148	13.10	72	3	21	6	1000			X	X	BOTT		
CANADA BASIN	17	75	13.90	148	11.00	72	3	21	18	1000			X	X	BOTT		
CANADA BASIN	18	75	13.30	148	8.40	72	3	22	6	1000			X	X	BOTT		
CANADA BASIN	19	75	13.00	148	7.30	72	3	22	18	1000			X	X	BOTT		
CANADA BASIN	20	75	12.50	148	6.80	72	3	23	6	1000			X	X	BOTT		
CANADA BASIN	21	75	12.50	148	6.90	72	3	23	18	1000			X	X	BOTT		
CANADA BASIN	22	75	11.40	148	13.90	72	3	24	6	1000			X	X	BOTT		
CANADA BASIN	23	75	10.20	148	24.60	72	3	24	18	1000			X	X	BOTT		
CANADA BASIN	24	75	8.90	148	39.60	72	3	25	6	1000			X	X	BOTT		
CANADA BASIN	25	75	6.90	148	57.90	72	3	25	18	1010			X	X	BOTT		
CANADA BASIN	26	75	6.70	149	0.70	72	3	25	21	46			X	X	BOTT		
CANADA BASIN	27	75	5.50	149	9.80	72	3	26	6	1000			X	X	BOTT		
CANADA BASIN	28	75	4.10	149	13.00	72	3	26	18	1000			X	X	BOTT		
CANADA BASIN	29	75	3.80	149	12.60	72	3	26	21	38			X	X	BOTT		
CANADA BASIN	30	75	3.30	149	10.50	72	3	27	6	1000			X	X	BOTT		
CANADA BASIN	31	75	3.10	149	6.80	72	3	27	18	1000			X	X	BOTT		
CANADA BASIN	32	75	3.00	149	5.20	72	3	27	21	46			X	X	BOTT		
CANADA BASIN	33	75	2.80	149	0.10	72	3	28	6	1000			X	X	BOTT		
CANADA BASIN	34	75	2.70	148	55.80	72	3	28	18	1000			X	X	BOTT		
CANADA BASIN	35	75	2.90	148	50.00	72	3	29		620			X	X	BOTT		
CANADA BASIN	36	75	3.10	148	46.00	72	3	29	6	1000			X	X	BOTT		

CANADA BASIN	37	75	3.10	148	39.30	72	3	29	18	1000	X	X	BOTT
CANADA BASIN	38	75	2.00	148	38.00	72	3	30		46	X	X	BOTT
CANADA BASIN	39	75	1.20	148	35.80	72	3	30	6	1000	X	X	BOTT
CANADA BASIN	40	75	1.00	148	32.00	72	3	30	18	1000	X	X	BOTT
CANADA BASIN	41	75	1.10	148	28.00	72	3	31		42	X	X	BOTT
CANADA BASIN	42	75	1.10	148	25.30	72	3	31	6	1000	X	X	BOTT
CANADA BASIN	43	75	1.00	148	25.80	72	3	31	18	1000	X	X	BOTT
CANADA BASIN	44	75	1.00	148	25.80	72	3	31	19	42	X	X	BOTT
CANADA BASIN	45	75	1.00	148	25.70	72	3	31	23	230	X	X	BOTT
CANADA BASIN	46	75	0.90	148	25.50	72	4	1	6	1000	X	X	BOTT
CANADA BASIN	47	75	0.90	148	25.50	72	4	1	18	1000	X	X	BOTT
CANADA BASIN	48	75	0.90	148	25.00	72	4	1	19	40	X	X	BOTT
CANADA BASIN	49	75	0.50	148	20.80	72	4	2	6	1000	X	X	BOTT
CANADA BASIN	50	75	0.40	148	18.00	72	4	2	18	1000	X	X	BOTT
CANADA BASIN	51	75	0.40	148	17.90	72	4	2	19	40	X	X	BOTT
CANADA BASIN	52	75	0.50	148	18.00	72	4	3	6	1000	X	X	BOTT
CANADA BASIN	53	75	0.80	148	20.60	72	4	3	18	1000	X	X	BOTT
CANADA BASIN	54	75	1.00	148	21.00	72	4	3	19	40	X	X	BOTT
CANADA BASIN	55	75	1.90	148	28.50	72	4	4	6	1000	X	X	BOTT
CANADA BASIN	56	75	2.00	148	35.20	72	4	4	18	1000	X	X	BOTT
CANADA BASIN	57	75	2.00	148	35.80	72	4	4	19	40	X	X	BOTT
CANADA BASIN	58	75	2.00	148	40.50	72	4	5	6	1004	X	X	BOTT
CANADA BASIN	59	75	1.80	148	40.00	72	4	5	18	1004	X	X	BOTT
CANADA BASIN	60	75	1.80	148	40.00	72	4	5	19	40	X	X	BOTT
CANADA BASIN	61	75	1.70	148	39.00	72	4	6	6	1000	X	X	BOTT
CANADA BASIN	62	75	1.80	148	38.10	72	4	6	18	1000	X	X	BOTT
CANADA BASIN	63	75	1.80	148	38.00	72	4	6	19	42	X	X	BOTT
CANADA BASIN	64	75	2.10	148	37.50	72	4	7		230	X	X	BOTT
CANADA BASIN	65	75	2.30	148	36.90	72	4	7	6	1000	X	X	BOTT
CANADA BASIN	66	75	2.90	148	36.30	72	4	7	18	500	X	X	BOTT
CANADA BASIN	67	75	3.00	148	36.00	72	4	7	19	42	X	X	BOTT
CANADA BASIN	68	75	3.90	148	35.30	72	4	8	6	500	X	X	BOTT
CANADA BASIN	69	75	4.40	148	35.20	72	4	8	18	500	X	X	BOTT
CANADA BASIN	70	75	4.50	148	35.20	72	4	8	19	42	X	X	BOTT
CANADA BASIN	71	75	4.60	148	35.20	72	4	9	6	500	X	X	BOTT
CANADA BASIN	72	75	4.20	148	35.10	72	4	9	18	500	X	X	BOTT
CANADA BASIN	73	75	4.20	148	35.70	72	4	9	19	40	X	X	BOTT
CANADA BASIN	74	75	3.80	148	39.10	72	4	10	6	501	X	X	BOTT
CANADA BASIN	75	75	3.60	148	44.60	72	4	10	18	500	X	X	BOTT
CANADA BASIN	76	75	3.50	148	46.50	72	4	10	19	42	X	X	BOTT
CANADA BASIN	101	75	23.30	151	41.00	72	3	13	18	1000	X	X	BOTT
CANADA BASIN	102	75	23.20	151	41.90	72	3	14	6	1000	X	X	BOTT
CANADA BASIN	103	75	23.10	151	44.60	72	3	14	18	1000	X	X	BOTT
CANADA BASIN	104	75	23.40	151	45.60	72	3	15	6	1000	X	X	BOTT
CANADA BASIN	105	75	23.50	151	46.10	72	3	15	18	1000	X	X	BOTT
CANADA BASIN	106	75	23.20	151	47.70	72	3	16	6	1000	X	X	BOTT
CANADA BASIN	107	75	23.70	151	46.30	72	3	16	18	1000	X	X	BOTT
CANADA BASIN	108	75	22.50	151	52.30	72	3	17	6	1000	X	X	BOTT
CANADA BASIN	109	75	22.00	151	56.20	72	3	17	18	1000	X	X	BOTT
CANADA BASIN	110	75	21.80	152	0.40	72	3	18	6	1000	X	X	BOTT
CANADA BASIN	111	75	21.90	152	3.50	72	3	18	18	1000	X	X	BOTT
CANADA BASIN	112	75	22.30	152	9.10	72	3	19	6	1000	X	X	BOTT
CANADA BASIN	113	75	22.20	152	13.90	72	3	19	18	1000	X	X	BOTT
CANADA BASIN	114	75	22.10	152	13.40	72	3	20	6	1000	X	X	BOTT
CANADA BASIN	115	75	22.00	152	13.80	72	3	20	18	1000	X	X	BOTT
CANADA BASIN	116	75	21.60	152	12.20	72	3	21	6	1000	X	X	BOTT
CANADA BASIN	117	75	21.50	152	11.80	72	3	21	18	1000	X	X	BOTT
CANADA BASIN	118	75	20.70	152	8.20	72	3	22	6	1000	X	X	BOTT
CANADA BASIN	119	75	20.70	152	7.50	72	3	22	18	1000	X	X	BOTT
CANADA BASIN	120	75	20.30	152	7.20	72	3	23	6	1000	X	X	BOTT
CANADA BASIN	121	75	20.30	152	7.40	72	3	23	18	1000	X	X	BOTT
CANADA BASIN	122	75	19.20	152	15.90	72	3	24	6	1000	X	X	BOTT
CANADA BASIN	123	75	18.20	152	25.90	72	3	24	18	1000	X	X	BOTT
CANADA BASIN	124	75	17.10	152	40.00	72	3	25	6	1000	X	X	BOTT
CANADA BASIN	125	75	15.60	152	55.40	72	3	25	18	1000	X	X	BOTT
CANADA BASIN	126	75	13.70	153	11.20	72	3	26	6	1000	X	X	BOTT
CANADA BASIN	127	75	12.50	153	12.20	72	3	26	18	1000	X	X	BOTT
CANADA BASIN	128	75	11.40	153	10.80	72	3	27	6	1000	X	X	BOTT
CANADA BASIN	129	75	10.90	153	8.10	72	3	27	18	1000	X	X	BOTT
CANADA BASIN	130	75	10.60	152	0.70	72	3	28	6	1000	X	X	BOTT
CANADA BASIN	131	75	10.70	152	54.30	72	3	28	18	1000	X	X	BOTT
CANADA BASIN	132	75	10.90	152	44.40	72	3	29	6	1000	X	X	BOTT
CANADA BASIN	133	75	10.50	152	37.90	72	3	29	18	1000	X	X	BOTT
CANADA BASIN	134	75	8.80	152	33.90	72	3	30	6	1000	X	X	BOTT
CANADA BASIN	135	75	8.80	152	29.20	72	3	30	18	1000	X	X	BOTT
CANADA BASIN	136	75	8.70	152	21.00	72	3	31	6	1000	X	X	BOTT
CANADA BASIN	137	75	8.70	152	21.10	72	3	31	18	1000	X	X	BOTT
CANADA BASIN	138	75	8.70	152	21.50	72	3	31	19	44	X	X	BOTT
CANADA BASIN	139	75	8.60	152	21.00	72	4	1	6	1000	X	X	BOTT
CANADA BASIN	140	75	8.60	152	21.60	72	4	1	18	1000	X	X	BOTT
CANADA BASIN	141	75	8.60	152	21.60	72	4	1	19	40	X	X	BOTT
CANADA BASIN	142	75	8.50	152	21.40	72	4	2	6	1000	X	X	BOTT
CANADA BASIN	143	75	8.40	152	15.80	72	4	2	18	1000	X	X	BOTT

CANADA	BASIN	144	75	8.60	152	21.60	72	4	2	19	38	X	X	BOTT
CANADA	BASIN	145	75	8.50	152	17.20	72	4	3	6	1000	X	X	BOTT
CANADA	BASIN	146	75	9.30	152	19.30	72	4	3	18	1000	X	X	BOTT
CANADA	BASIN	147	75	9.30	152	19.30	72	4	3	19	38	X	X	BOTT
CANADA	BASIN	148	75	10.30	152	27.00	72	4	4	6	1000	X	X	BOTT
CANADA	BASIN	149	75	10.20	152	33.80	72	4	4	18	1000	X	X	BOTT
CANADA	BASIN	150	75	9.90	152	32.40	72	4	4	19	42	X	X	BOTT
CANADA	BASIN	151	75	9.60	152	38.10	72	4	5	6	1000	X	X	BOTT
CANADA	BASIN	152	75	9.40	152	38.20	72	4	5	18	1000	X	X	BOTT
CANADA	BASIN	153	75	9.40	152	38.20	72	4	5	19	54	X	X	BOTT
CANADA	BASIN	154	75	9.20	152	37.80	72	4	6	6	210	X	X	BOTT
CANADA	BASIN	155	75	9.80	152	35.70	72	4	6	18	1000	X	X	BOTT
CANADA	BASIN	156	75	9.60	152	36.30	72	4	6	19	52	X	X	BOTT
CANADA	BASIN	157	75	10.30	152	34.80	72	4	7	6	1000	X	X	BOTT
CANADA	BASIN	158	75	11.20	152	33.50	72	4	7	18	1000	X	X	BOTT
CANADA	BASIN	159	75	10.10	152	35.30	72	4	7	19	42	X	X	BOTT
CANADA	BASIN	160	75	11.20	152	33.10	72	4	8	6	1000	X	X	BOTT
CANADA	BASIN	161	75	11.20	152	33.10	72	4	8	18	1000	X	X	BOTT
CANADA	BASIN	162	75	11.20	152	33.10	72	4	8	19	46	X	X	BOTT
CANADA	BASIN	163	75	11.20	152	33.10	72	4	9	6	1000	X	X	BOTT
CANADA	BASIN	164	75	11.20	152	33.10	72	4	9	18	1000	X	X	BOTT
CANADA	BASIN	165	75	11.20	152	33.10	72	4	9	19	42	X	X	BOTT
CANADA	BASIN	166	75	11.20	152	33.10	72	4	10	6	1000	X	X	BOTT
CANADA	BASIN	167	75	11.20	152	33.10	72	4	10	18	1000	X	X	BOTT
CANADA	BASIN	168	75	11.20	152	33.10	72	4	10	19	42	X	X	BOTT
CANADA	BASIN	201	76	10.50	148	53.60	72	3	14	7	1000	X	X	BOTT
CANADA	BASIN	202	76	10.50	148	55.00	72	3	14	18	1000	X	X	BOTT
CANADA	BASIN	203	76	10.70	148	56.50	72	3	15	6	1000	X	X	BOTT
CANADA	BASIN	204	76	10.90	148	55.50	72	3	15	18	1000	X	X	BOTT
CANADA	BASIN	205	76	10.90	148	54.30	72	3	16	6	1000	X	X	BOTT
CANADA	BASIN	206	76	10.70	148	55.50	72	3	16	18	1000	X	X	BOTT
CANADA	BASIN	207	76	10.60	148	56.80	72	3	17	6	1000	X	X	BOTT
CANADA	BASIN	208	76	10.70	148	57.80	72	3	17	18	1000	X	X	BOTT
CANADA	BASIN	209	76	10.50	148	59.60	72	3	18	6	1000	X	X	BOTT
CANADA	BASIN	210	76	10.50	149	2.00	72	3	18	18	1000	X	X	BOTT
CANADA	BASIN	211	76	10.80	149	11.30	72	3	19	6	1000	X	X	BOTT
CANADA	BASIN	212	76	10.90	149	19.80	72	3	19	18	1000	X	X	BOTT
CANADA	BASIN	213	76	10.70	149	21.60	72	3	20	6	1000	X	X	BOTT
CANADA	BASIN	214	76	10.40	149	22.10	72	3	20	18	1000	X	X	BOTT
CANADA	BASIN	215	76	9.80	149	21.00	72	3	21	6	1000	X	X	BOTT
CANADA	BASIN	216	76	9.30	149	18.80	72	3	21	18	1000	X	X	BOTT
CANADA	BASIN	217	76	8.50	149	16.50	72	3	22	6	1000	X	X	BOTT
CANADA	BASIN	218	76	7.90	149	15.00	72	3	22	18	1000	X	X	BOTT
CANADA	BASIN	219	76	7.70	149	14.90	72	3	23	6	210	X	X	BOTT
CANADA	BASIN	220	76	7.70	149	15.00	72	3	23	18	1000	X	X	BOTT
CANADA	BASIN	221	76	6.[illegible]0	149	23.30	72	3	24	6	1000	X	X	BOTT
CANADA	BASIN	222	76	5.40	149	33.00	72	3	24	18	1000	X	X	BOTT
CANADA	BASIN	223	76	4.10	149	47.00	72	3	25	6	998	X	X	BOTT
CANADA	BASIN	224	76	2.20	150	5.20	72	3	25	18	994	X	X	BOTT
CANADA	BASIN	225	76	0.30	150	17.00	72	3	26	6	1000	X	X	BOTT
CANADA	BASIN	226	75	59.30	150	19.50	72	3	26	18	1000	X	X	BOTT
CANADA	BASIN	227	75	58.90	150	13.70	72	3	27	6	1000	X	X	BOTT
CANADA	BASIN	228	75	58.50	150	7.90	72	3	27	18	1000	X	X	BOTT
CANADA	BASIN	229	75	58.10	150	2.10	72	3	28	6	1000	X	X	BOTT
CANADA	BASIN	230	75	57.70	149	56.30	72	3	28	18	1000	X	X	BOTT
CANADA	BASIN	231	75	57.30	149	50.50	72	3	29	6	1000	X	X	BOTT
CANADA	BASIN	232	75	56.90	149	44.70	72	3	29	18	1000	X	X	BOTT
CANADA	BASIN	233	75	56.60	149	38.80	72	3	30	6	1000	X	X	BOTT
CANADA	BASIN	234	75	56.50	149	34.30	72	3	30	18	1000	X	X	BOTT
CANADA	BASIN	235	75	56.50	149	27.00	72	3	31	6	1000	X	X	BOTT
CANADA	BASIN	236	75	56.60	149	27.30	72	3	31	18	1000	X	X	BOTT
CANADA	BASIN	237	75	56.60	149	27.70	72	3	31	19	42	X	X	BOTT
CANADA	BASIN	238	75	56.40	149	27.00	72	4	1	6	1000	X	X	BOTT
CANADA	BASIN	239	75	56.40	149	27.10	72	4	1	18	1000	X	X	BOTT
CANADA	BASIN	240	75	56.30	149	27.30	72	4	1	19	42	X	X	BOTT
CANADA	BASIN	241	75	55.90	149	21.00	72	4	2	6	1000	X	X	BOTT
CANADA	BASIN	242	75	56.00	149	15.80	72	4	2	18	1000	X	X	BOTT
CANADA	BASIN	243	75	56.00	149	15.80	72	4	2	19	50	X	X	BOTT
CANADA	BASIN	244	75	56.10	149	15.60	72	4	3	6	1000	X	X	BOTT
CANADA	BASIN	245	75	56.40	149	17.70	72	4	3	18	1000	X	X	BOTT
CANADA	BASIN	246	75	56.50	149	18.90	72	4	3	20	54	X	X	BOTT
CANADA	BASIN	247	75	57.50	149	25.50	72	4	4	6	1000	X	X	BOTT
CANADA	BASIN	248	75	57.60	149	33.70	72	4	4	18	1000	X	X	BOTT
CANADA	BASIN	249	75	57.50	149	34.90	72	4	4	20	56	X	X	BOTT
CANADA	BASIN	250	75	57.40	149	40.00	72	4	5	6	1000	X	X	BOTT
CANADA	BASIN	251	75	57.30	149	40.30	72	4	5	18	1000	X	X	BOTT
CANADA	BASIN	252	75	57.20	149	40.00	72	4	5	19	56	X	X	BOTT
CANADA	BASIN	253	75	57.10	149	38.30	72	4	6	6	1000	X	X	BOTT
CANADA	BASIN	254	75	57.40	149	37.40	72	4	6	18	1000	X	X	BOTT
CANADA	BASIN	255	75	57.50	149	37.50	72	4	6	19	57	X	X	BOTT
CANADA	BASIN	256	75	58.20	149	35.30	72	4	7	6	1000	X	X	BOTT
CANADA	BASIN	257	75	58.90	149	33.70	72	4	7	18	1000	X	X	BOTT
CANADA	BASIN	258	75	59.10	149	33.50	72	4	7	19	57	X	X	BOTT

CANADA BASIN	259	76	0.80	149	30.50	72	4	8	6	1000		X	X	BOTT	
CANADA BASIN	260	76	1.60	149	30.10	72	4	8	18	1000		X	X	BOTT	
CANADA BASIN	261	76	1.70	149	30.40	72	4	8	19	57		X	X	BOTT	
CANADA BASIN	262	76	1.40	149	29.70	72	4	9	6	1000		X	X	BOTT	
CANADA BASIN	263	76	1.00	149	30.30	72	4	9	18	1000		X	X	BOTT	
CANADA BASIN	264	76	0.90	149	30.60	72	4	9	19	56		X	X	BOTT	
CANADA BASIN	265	76	0.70	149	33.00	72	4	10	6	1000		X	X	BOTT	
CANADA BASIN	266	76	0.70	149	36.30	72	4	10	18	1000		X	X	BOTT	
CANADA BASIN	267	76	0.60	149	36.50	72	4	10	19	56		X	X	BOTT	

BOTTLE/CTD DATA SET NUMBER: 72-0038
YEAR:1972 VESSEL/AGENCY: NRC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
QEI SHELF	2	81	10.00	94	3.00	72	5	7	18	10			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 72-0039
YEAR:1972 VESSEL/AGENCY: NRC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
LINCOLN SEA	2	82	43.00	60	5.00	72	7	7	18	14			X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 72-0040
YEAR:1972 VESSEL/AGENCY: STATEN ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	9	71	3.00	159	9.00	72	7	5	16	40	51		X	X	BOTT		
ALASKAN SHELF	10	71	3.00	158	8.00	72	7	7		23	27		X	X	BOTT		
ALASKAN SHELF	11	71	4.00	157	54.00	72	7	7	10	27	35		X	X	BOTT		
ALASKAN SHELF	12	71	4.00	157	52.00	72	7	7	12	27	35		X	X	BOTT		
ALASKAN SHELF	13	71	33.00	156	7.00	72	7	8	8	50	164		X	X	BOTT		
ALASKAN SHELF	14	71	38.00	155	7.00	72	7	8	15	40	44		X	X	BOTT		
ALASKAN SHELF	15	71	39.00	153	55.00	72	7	8	19	35	54		X	X	BOTT		
ALASKAN SHELF	16	71	7.50	151	11.00	72	7	10	11	15	20		X	X	BOTT		
ALASKAN SHELF	17	71	7.00	150	23.00	72	7	11	8	40	48		X	X	BOTT		
ALASKAN SHELF	18	70	56.00	150	22.00	72	7	12	20	20	25		X	X	BOTT		
ALASKAN SHELF	19	70	33.00	147	45.00	72	7	16	4	20	26		X	X	BOTT		
ALASKAN SHELF	20	70	33.00	147	45.00	72	7	16	7	20	26		X	X	BOTT		
ALASKAN SHELF	21	70	33.00	147	45.00	72	7	16	8	20	26		X	X	BOTT		
ALASKAN SHELF	22	70	33.00	147	45.00	72	7	16	11	20	26		X	X	BOTT		
ALASKAN SHELF	23	70	33.00	147	45.00	72	7	16	13	20	26		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 72-0041
YEAR:1972 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	9	71 23.00	158 41.00	72 07 29 22		53	X		X	BISS		
NE CHUKCHI	082	71 20.00	156 45.00	72 08 13 23		30	X		X	BISS		
NE CHUKCHI	084	71 13.00	157 43.00	72 08 15 04		55	X		X	BISS		
NE CHUKCHI	086	70 59.00	159 35.60	72 08 15 08		63	X		X	BISS		
NE CHUKCHI	087	70 59.00	160 0.00	72 08 15 09		56	X		X	BISS		
NE CHUKCHI	106	71 20.40	157 27.70	72 08 18 19		99	X		X	BISS		
NE CHUKCHI	010D	71 24.50	159 33.00	72 07 30 00		38	X		X	BISS		
NE CHUKCHI	010S	71 24.50	159 33.00	72 07 30 00		38	X		X	BISS		
NE CHUKCHI	077D	71 33.40	158 42.50	72 08 12 07		57	X		X	BISS		
NE CHUKCHI	077S	71 33.40	158 42.50	72 08 12 07		57	X		X	BISS		
NE CHUKCHI	078D	71 32.80	158 40.00	72 08 12 07		54	X		X	BISS		
NE CHUKCHI	078S	71 32.80	158 40.00	72 08 12 07		54	X		X	BISS		
NE CHUKCHI	079D	71 32.30	158 37.40	72 08 13 08		57	X		X	BISS		
NE CHUKCHI	079S	71 32.30	158 37.40	72 08 13 08		57	X		X	BISS		
NE CHUKCHI	080D	71 30.70	158 30.00	72 08 13 09		57	X		X	BISS		
NE CHUKCHI	080S	71 30.70	158 30.00	72 08 13 09		57	X		X	BISS		
NE CHUKCHI	081D	71 28.00	158 20.00	72 08 13 10		60	X		X	BISS		
NE CHUKCHI	081S	71 28.00	158 20.00	72 08 13 10		60	X		X	BISS		
NE CHUKCHI	083D	71 20.00	156 45.00	72 08 14 19		33	X		X	BISS		
NE CHUKCHI	083S	71 20.00	156 45.00	72 08 14 19		33	X		X	BISS		
NE CHUKCHI	085D	71 7.00	158 46.00	72 08 15 06		54	X		X	BISS		
NE CHUKCHI	085S	71 7.00	158 46.00	72 08 15 06		54	X		X	BISS		
NE CHUKCHI	088D	71 1.00	160 0.00	72 08 15 10		67	X		X	BISS		
NE CHUKCHI	088S	71 1.00	160 0.00	72 08 15 10		67	X		X	BISS		
NE CHUKCHI	089D	71 2.00	160 0.00	72 08 15 10		72	X		X	BISS		
NE CHUKCHI	089S	71 2.00	160 0.00	72 08 15 10		72	X		X	BISS		
NE CHUKCHI	090D	71 3.00	160 0.00	72 08 15 11		70	X		X	BISS		
NE CHUKCHI	090S	71 3.00	160 0.00	72 08 15 12		70	X		X	BISS		
NE CHUKCHI	105D	71 25.00	157 27.00	72 08 18 19		116	X		X	BISS		
NE CHUKCHI	105S	71 25.00	157 27.00	72 08 18 19		116	X		X	BISS		
NE CHUKCHI	107D	71 30.00	157 23.00	72 08 18 21		107	X		X	BISS		
NE CHUKCHI	107S	71 30.00	157 23.00	72 08 18 21		107	X		X	BISS		
NE CHUKCHI	108D	71 35.00	157 23.00	72 08 18 21		80	X		X	BISS		
NE CHUKCHI	108S	71 35.00	157 23.00	72 08 18 21		80	X		X	BISS		
NE CHUKCHI	109D	71 46.00	157 30.00	72 08 18 23		72	X		X	BISS		
NE CHUKCHI	109S	71 46.00	157 30.00	72 08 18 23		72	X		X	BISS		
NE CHUKCHI	110D	71 56.00	157 32.00	72 08 19 00		73	X		X	BISS		
NE CHUKCHI	110S	71 56.00	157 32.00	72 08 19 01		73	X		X	BISS		
NE CHUKCHI	111D	72 0.00	157 32.00	72 08 18 01		78	X		X	BISS		
NE CHUKCHI	111S	72 0.00	157 32.00	72 08 18 01		78	X		X	BISS		
NE CHUKCHI	112D	72 3.00	157 32.00	72 08 19 02		100	X		X	BISS		
NE CHUKCHI	112S	72 3.00	157 32.00	72 08 19 02		100	X		X	BISS		
NE CHUKCHI	113D	72 7.70	157 41.10	72 08 19 04		66	X		X	BISS		
NE CHUKCHI	113S	72 7.70	157 41.10	72 08 19 04		66	X		X	BISS		
NE CHUKCHI	114D	72 21.40	158 3.50	72 08 19 20		71	X		X	BISS		
NE CHUKCHI	114S	72 21.40	158 3.50	72 08 19 20		71	X		X	BISS		

BOTTLE/CTD DATA SET NUMBER: 72-0045
YEAR:1972 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
BARROW		71 20.5	156 39.4	72 01 28	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 01 31	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 05	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 07	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 09	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 10	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 23	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 02 28	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 03 07	0.		X		X	BOTT		
BARROW		71 20.5	156 39.4	72 03 13	0.		X		X	BOTT		

BARROW	71	20.5	156	39.4	72	03	19	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	03	22	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	03	27	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	03	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	10	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	13	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	17	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	19	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	04	25	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	05	01	0.		X		X	BOTT
BARROW	71	20.5	156	39.4	72	05	10	0.		X		X	BOTT

BOTTLE/CTD DATA SET NUMBER: 73-0026
YEAR:1973 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70	53.00	159	40.00	73	08	04	05			X		X	CTD		
ALASKAN SHELF		70	57.00	159	35.00	73	08	04	07			X		X	CTD		
ALASKAN SHELF		70	58.00	159	45.00	73	08	04	09			X		X	CTD		
ALASKAN SHELF		71	2.00	159	40.00	73	08	04	11			X		X	CTD		
ALASKAN SHELF		71	8.00	158	15.00	73	08	11	16			X		X	CTD		
ALASKAN SHELF		71	21.00	156	40.00	73	08	03	00			X		X	CTD		
ALASKAN SHELF		71	21.00	156	50.00	73	08	03	04			X		X	CTD		
ALASKAN SHELF		71	26.00	156	45.00	73	08	10	16			X		X	CTD		
ALASKAN SHELF		71	27.00	156	50.00	73	08	10	17			X		X	CTD		
ALASKAN SHELF		71	28.00	157	0.00	73	08	03	07			X		X	CTD		
ALASKAN SHELF		71	28.00	157	0.00	73	08	10	19			X		X	CTD		
ALASKAN SHELF		71	30.00	156	55.00	73	08	03	18			X		X	CTD		
ALASKAN SHELF		71	31.00	157	5.00	73	08	10	22			X		X	CTD		
ALASKAN SHELF		71	35.00	157	5.00	73	08	11	00			X		X	CTD		
ALASKAN SHELF		71	36.00	156	0.00	73	08	03	20			X		X	CTD		
ALASKAN SHELF		71	36.00	157	10.00	73	08	11	03			X		X	CTD		
ALASKAN SHELF		71	38.00	157	10.00	73	08	03	17			X		X	CTD		
ALASKAN SHELF		71	42.00	157	15.00	73	08	11	04			X		X	CTD		
ALASKAN SHELF		71	47.00	157	25.00	73	08	11	06			X		X	CTD		
ALASKAN SHELF		71	48.00	157	25.00	73	08	03	17			X		X	CTD		
ALASKAN SHELF		71	53.00	157	40.00	73	08	11	11			X		X	CTD		
ALASKAN SHELF		71	55.00	157	40.00	73	08	03	17			X		X	CTD		
ALASKAN SHELF		71	57.00	157	50.00	73	08	11	13			X		X	CTD		
ALASKAN SHELF		72	5.00	158	0.00	73	08	11	14			X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 73-0028
YEAR:1973 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DEASE INLET		70	50.00	155	55.00*	73	04	09				X		X	RS5		
DEASE INLET		70	52.00	155	46.00	73	04	09				X		X	RS5		
DEASE INLET		70	53.50	155	36.00	73	04	09				X		X	RS5		
DEASE INLET		70	54.50	155	43.00	73	04	09				X		X	RS5		
DEASE INLET		70	55.00	155	51.00	73	04	09				X		X	RS5		
DEASE INLET		70	56.00	155	35.00	73	04	09				X		X	RS5		
DEASE INLET		70	56.50	155	55.00	73	04	09				X		X	RS5		
DEASE INLET		70	57.00	155	45.00	73	04	09				X		X	RS5		
DEASE INLET		70	59.50	155	28.00	73	04	09				X		X	RS5		
DEASE INLET		71	1.50	155	12.00	73	04	09				X		X	RS5		
DEASE INLET		71	2.80	155	23.00	73	04	09				X		X	RS5		
DEASE INLET		71	5.50	155	23.00	73	04	09				X		X	RS5		
DEASE INLET		71	9.00	155	24.50	73	04	09				X		X	RS5		
DEASE INLET		71	11.50	155	25.00	73	04	09				X		X	RS5		
ELSON LAGOON		71	17.50	155	46.00	73	04	09				X		X	RS5		
ELSON LAGOON		71	18.50	156	26.00	73	02	09				X		X	RS5		
ELSON LAGOON		71	18.50	156	26.00	73	04	09				X		X	RS5		
ELSON LAGOON		71	18.50	156	28.00	73	02	09				X		X	RS5		

ELSON LAGOON	71	18.50	156	28.00	73	04	09			X	X	RS5
ELSON LAGOON	71	20.00	156	29.00	73	02	09			X	X	RS5
ELSON LAGOON	71	20.00	156	29.00	73	04	09			X	X	RS5
ELSON LAGOON	71	20.50	156	26.00	73	02	09			X	X	RS5
ELSON LAGOON	71	20.50	156	26.00	73	04	09			X	X	RS5
ELSON LAGOON	71	21.00	156	29.00	73	02	09			X	X	RS5
ELSON LAGOON	71	21.00	156	29.00	73	04	09			X	X	RS5
ELSON LAGOON	71	22.00	156	21.00	73	02	09			X	X	RS5
ELSON LAGOON	71	22.00	156	21.00	73	04	09			X	X	RS5

*Locations approximate.

BOTTLE/CTD DATA SET NUMBER: 73-0034
YEAR:1973 VESSEL/AGENCY: Soviet Ice Station NP-22

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
CANADA BASIN	1	80	8.00	128	13.00	77	7	18	6	240	2195		X	X	BOTT		
CANADA BASIN	2	80	5.00	128	11.00	77	7	19	7	180	2420		X	X	BOTT		
CANADA BASIN	3	80	3.00	128	10.00	77	7	20	6	180	3160		X	X	BOTT		
CANADA BASIN	4	80	0.00	128	6.00	77	7	21	4	200	3230		X	X	BOTT		
CANADA BASIN	5	79	57.00	128	1.00	77	7	22	5	100	3260		X	X	BOTT		
CANADA BASIN	6	79	53.00	127	57.00	77	7	23	6	100	3270		X	X	BOTT		
CANADA BASIN	7	79	50.00	127	53.00	77	7	24	4	102	3160		X	X	BOTT		
CANADA BASIN	8	79	11.00	128	10.00	77	8	15		3300	3330		X	X	BOTT		
CANADA BASIN	9	79	12.00	128	11.00	77	8	16	3	98	3340		X	X	BOTT		
CANADA BASIN	10	79	12.00	128	13.00	77	8	17	4	98	3360		X	X	BOTT		
CANADA BASIN	11	79	13.00	128	14.00	77	8	18	1	102	3380		X	X	BOTT		
CANADA BASIN	12	79	13.00	128	16.00	77	8	19	4	102	3370		X	X	BOTT		
CANADA BASIN	13	79	14.00	128	17.00	77	8	20		102	3380		X	X	BOTT		
CANADA BASIN	14	79	15.00	128	18.00	77	8	21	4	104	3360		X	X	BOTT		
CANADA BASIN	15	79	15.00	128	20.00	77	8	22		104	3380		X	X	BOTT		
CANADA BASIN	16	79	5.00	126	52.00	77	9	17	17	3200	3220		X	X	BOTT		
CANADA BASIN	17	79	5.00	126	49.00	77	9	19	1	250	3220		X	X	BOTT		
CANADA BASIN	18	79	5.00	126	45.00	77	9	19	18	90	3220		X	X	BOTT		
CANADA BASIN	19	79	3.00	126	38.00	77	9	20	22	88	3210		X	X	BOTT		
CANADA BASIN	20	79	2.00	126	35.00	77	9	21	22	88	3270		X	X	BOTT		
CANADA BASIN	21	79	1.00	126	31.00	77	9	22	23	88	3240		X	X	BOTT		
CANADA BASIN	22	79	1.00	126	31.00	77	9	23	23	88	3140		X	X	BOTT		
CANADA BASIN	23	79	1.00	126	32.00	77	9	24	23	88	3140		X	X	BOTT		
CANADA BASIN	24	78	25.00	127	35.00	77	10	16	19	2850	2860		X	X	BOTT		
CANADA BASIN	25	78	13.00	127	59.00	77	10	19	17	85	2820		X	X	BOTT		
CANADA BASIN	26	78	10.00	128	1.00	77	10	20	20	85	2790		X	X	BOTT		
CANADA BASIN	27	78	3.00	128	17.00	77	10	22	17	85	2760		X	X	BOTT		
CANADA BASIN	28	77	57.00	129	3.00	77	10	23	23	87	2930		X	X	BOTT		
CANADA BASIN	29	77	53.00	129	22.00	77	10	25	2	87	3030		X	X	BOTT		
CANADA BASIN	30	77	47.00	129	51.00	77	10	26	22	87	3130		X	X	BOTT		
CANADA BASIN	31	77	45.00	129	52.00	77	10	27	22	87	3120		X	X	BOTT		
CANADA BASIN	32	76	37.00	132	16.00	77	11	23		3060	3080		X	X	BOTT		
CANADA BASIN	33	76	6.00	131	48.00	77	12	17		2780	2800		X	X	BOTT		
CANADA BASIN	34	76	8.00	132	38.00	77	12	25	5	500	3050		X	X	BOTT		
CANADA BASIN	35	76	10.00	132	22.00	78	1	19		2960	2980		X	X	BOTT		
CANADA BASIN	36	75	32.00	132	40.00	78	2	7	4	250	2960		X	X	BOTT		
CANADA BASIN	37	75	28.00	133	49.00	78	2	14	23	2000	3200		X	X	BOTT		
CANADA BASIN	38	75	21.00	135	24.00	78	3	3		3400	3440		X	X	BOTT		
CANADA BASIN	39	75	14.00	136	46.00	78	3	13	23	3480	3500		X	X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 73-0035
YEAR:1973 VESSEL/AGENCY: T-3 ICE ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALPHA RIDGE	1	83	42.00	85	24.00	73	02	22		1300							

BOTTLE/CTD DATA SET NUMBER: 73-0038
YEAR:1973 VESSEL/AGENCY: LOUISIANA STATE UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
COLVILLE R	1.1	70	27.00	151	21.00*	73	05*					X		X	RS5		
COLVILLE R	1.2	70	28.00	151	21.00	73	05					X		X	RS5		
COLVILLE R	1.3	70	30.00	151	21.00	73	05					X		X	RS5		
COLVILLE R	1.4	70	33.00	151	21.00	73	05					X		X	RS5		
COLVILLE R	1.5	70	34.00	151	21.00	73	06					X		X	RS5		
COLVILLE R	2.1	70	29.00	151	8.00	73	05					X		X	RS5		
COLVILLE R	2.2	70	30.00	151	8.00	73	05					X		X	RS5		
COLVILLE R	2.2	70	30.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.3	70	33.00	151	8.00	73	05					X		X	RS5		
COLVILLE R	2.3	70	33.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.4	70	35.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.5	70	36.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.6	70	38.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.7	70	40.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	2.9	70	45.00	151	8.00	73	06					X		X	RS5		
COLVILLE R	3.2	70	31.00	150	51.00	73	05					X		X	RS5		
COLVILLE R	3.3	70	33.00	150	51.00	73	05					X		X	RS5		
COLVILLE R	3.3	70	33.00	150	51.00	73	06					X		X	RS5		
COLVILLE R	3.4	70	35.00	150	51.00	73	05					X		X	RS5		
COLVILLE R	3.4	70	35.00	150	51.00	73	06					X		X	RS5		
COLVILLE R	3.5	70	36.00	150	51.00	73	05					X		X	RS5		
COLVILLE R	4.2	70	34.00	150	37.00	73	05					X		X	RS5		
COLVILLE R	4.3	70	36.00	150	37.00	73	05					X		X	RS5		
COLVILLE R	4.3	70	36.00	150	37.00	73	06					X		X	RS5		
COLVILLE R	4.4	70	37.00	150	37.00	73	05					X		X	RS5		
COLVILLE R	4.5	70	39.00	150	37.00	73	05					X		X	RS5		
COLVILLE R	4.6	70	41.00	150	37.00	73	05					X		X	RS5		
COLVILLE R	4.7	70	43.00	150	37.00	73	06					X		X	RS5		
COLVILLE R	4.8	70	46.00	150	37.00	73	06					X		X	RS5		
COLVILLE R	5.1	70	31.00	150	16.00	73	05					X		X	RS5		
COLVILLE R	5.2	70	33.00	150	16.00	73	05					X		X	RS5		
COLVILLE R	5.2	70	33.00	150	16.00	73	06					X		X	RS5		
COLVILLE R	5.3	70	35.00	150	16.00	73	05					X		X	RS5		
COLVILLE R	5.3	70	35.00	150	16.00	73	06					X		X	RS5		
COLVILLE R	5.4	70	37.00	150	16.00	73	05					X		X	RS5		
COLVILLE R	5.4	70	37.00	150	16.00	73	06					X		X	RS5		
COLVILLE R	5.5	70	39.00	150	16.00	73	05					X		X	RS5		
COLVILLE R	6.1	70	28.00	150	9.00	73	06					X		X	RS5		
COLVILLE R	6.4	70	34.00	150	9.00	73	05					X		X	RS5		
COLVILLE R	6.5	70	36.00	150	9.00	73	05					X		X	RS5		
COLVILLE R	6.6	70	37.00	150	9.00	73	05					X		X	RS5		
COLVILLE R	6.6	70	37.00	150	9.00	73	06					X		X	RS5		
COLVILLE R	7.1	70	32.00	150	0.00	73	05					X		X	RS5		
COLVILLE R	7.3	70	36.00	149	53.00	73	05					X		X	RS5		
COLVILLE R	7.4	70	37.00	149	53.00	73	05					X		X	RS5		
COLVILLE R	8.1	70	32.00	149	44.00	73	05					X		X	RS5		
COLVILLE R	8.2	70	34.00	149	36.00	73	05					X		X	RS5		
COLVILLE R	8.3	70	36.00	149	36.00	73	05					X		X	RS5		

*Estimated locations; dates nominal.

BOTTLE/CTD DATA SET NUMBER: 73-0043
YEAR:1973 VESSEL/AGENCY: GLACIER, WEBSEC '73

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	71	28.0	155	26.0	73	07	28		20	22	X		X	BOTT		
ALASKAN SHELF	2	71	34.0	155	30.0	73	07	29		60	64	X		X	BOTT		
ALASKAN SHELF	3	71	20.6	153	07.5	73	07	29		60	65	X		X	BOTT		
ALASKAN SHELF	4	71	11.0	152	59.0	73	07	30		20	22	X		X	BOTT		
ALASKAN SHELF	5	71	07.5	152	59.0	73	07	30		20	24	X		X	BOTT		
ALASKAN SHELF	6	71	35.0	152	59.0	73	07	30		120	123	X		X	BOTT		
ALASKAN SHELF	7	71	20.0	153	05.0	73	07	31		75	80	X		X	BOTT		
ALASKAN SHELF	8	70	55.9	150	55.0	73	08	01		20	25	X		X	BOTT		

ALASKAN SHELF	9	71	02.0	151	00.0	73	08	01	19	21	X	X	BOTT
ALASKAN SHELF	11	71	11.0	151	16.0	73	08	01	20	25	X	X	BOTT
ALASKAN SHELF	12	71	16.0	151	04.0	73	08	01	90	95	X	X	BOTT
ALASKAN SHELF	13	71	23.0	151	00.0	73	08	02	400	951	X	X	BOTT
ALASKAN SHELF	15	70	51.0	150	10.0	73	08	02	20	24	X	X	BOTT
ALASKAN SHELF	16	70	42.5	149	10.5	73	08	02	15	18	X	X	BOTT
ALASKAN SHELF	17	70	42.0	148	00.0	73	08	02	20	24	X	X	BOTT
ALASKAN SHELF	18	70	41.0	148	07.0	73	08	03	30	34	X	X	BOTT
ALASKAN SHELF	19	70	42.0	148	10.0	73	08	04	30	32	X	X	BOTT
ALASKAN SHELF	20	70	56.0	148	10.0	73	08	04	39	44	X	X	BOTT
ALASKAN SHELF	21	71	02.0	148	12.0	73	08	04	49	54	X	X	BOTT
ALASKAN SHELF	22	71	09.0	148	09.0	73	08	04	300	391	X	X	BOTT
ALASKAN SHELF	23	70	57.0	147	30.0	73	08	05	50	50	X	X	BOTT
ALASKAN SHELF	24	70	52.0	147	30.0	73	08	05	40	44	X	X	BOTT
ALASKAN SHELF	25	70	32.0	147	30.0	73	08	05	20	30	X	X	BOTT
ALASKAN SHELF	26	70	23.4	147	06.9	73	08	05	15	21	X	X	BOTT
ALASKAN SHELF	27	70	19.0	146	33.0	73	08	05	20	22	X	X	BOTT
ALASKAN SHELF	28	70	13.0	146	01.0	73	08	06	20	24	X	X	BOTT
ALASKAN SHELF	29	70	21.0	146	00.0	73	08	06	20	24	X	X	BOTT
ALASKAN SHELF	30	70	24.2	146	31.0	73	08	06	20	24	X	X	BOTT
ALASKAN SHELF	31	70	31.7	146	31.0	73	08	06	30	38	X	X	BOTT
ALASKAN SHELF	32	70	39.0	146	31.0	73	08	06	30	33	X	X	BOTT
ALASKAN SHELF	33	70	40.0	146	29.0	73	08	06	40	45	X	X	BOTT
ALASKAN SHELF	34	70	44.0	146	45.0	73	08	06	30	36	X	X	BOTT
ALASKAN SHELF	35	70	42.0	147	04.0	73	08	06	39	44	X	X	BOTT
ALASKAN SHELF	36	70	42.0	147	10.0	73	08	06	30	36	X	X	BOTT
ALASKAN SHELF	37	70	39.0	147	33.0	73	08	06	20	27	X	X	BOTT
ALASKAN SHELF	39	71	09.0	154	03.0	73	08	11	15	18	X	X	BOTT
ALASKAN SHELF	40	71	15.0	154	05.0	73	08	11	20	24	X	X	BOTT
ALASKAN SHELF	41	71	19.0	155	00.0	73	08	11	13	15	X	X	BOTT
ALASKAN SHELF	42	71	28.0	154	55.0	73	08	12	20	20	X	X	BOTT
ALASKAN SHELF	43	71	33.0	155	00.0	73	08	12	30	33	X	X	BOTT
ALASKAN SHELF	44	71	36.0	154	57.0	73	08	12	50	58	X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 73-0045
YEAR:1973 VESSEL/AGENCY: U.S. JET PROP. LAB

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	1	70	18.4	148	20.4	73	06	28		0	1	X		X	RS5		
PRUDHOE BAY	1	70	18.4	148	20.4	73	07	08		0	1	X		X	RS5		
PRUDHOE BAY	1	70	18.4	148	20.4	73	07	15		0	1	X		X	RS5		
PRUDHOE BAY	1	70	18.4	148	20.4	73	07	22		0	1	X		X	RS5		
PRUDHOE BAY	2	70	19.0	148	27.8	73	06	28		1	1	X		X	RS5		
PRUDHOE BAY	2	70	19.0	148	27.8	73	07	08		1	1	X		X	RS5		
PRUDHOE BAY	2	70	19.0	148	27.8	73	07	15		1	1	X		X	RS5		
PRUDHOE BAY	2	70	19.0	148	27.8	73	07	22		1	1	X		X	RS5		
PRUDHOE BAY	2	70	19.0	148	27.8	73	08	08		1	1	X		X	RS5		
PRUDHOE BAY	3	70	20.5	148	25.3	73	07	08		2	2	X		X	RS5		
PRUDHOE BAY	3	70	20.5	148	25.3	73	07	15		2	2	X		X	RS5		
PRUDHOE BAY	3	70	20.5	148	25.3	73	07	22		2	2	X		X	RS5		

BOTTLE/CTD DATA SET NUMBER: 74-0037
YEAR:1974 VESSEL/AGENCY: UNIV. WASHINGTON, SEATTLE.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		71	34.20	156	10.00*	74	04	22	09			X		X	CTD		
ALASKAN SHELF		71	34.20	156	10.00	74	04	22	09			X		X	CTD		
ALASKAN SHELF		71	34.20	156	10.00	74	04	22	09			X		X	CTD		
ALASKAN SHELF		71	34.20	156	10.00	74	04	22	16			X		X	CTD		
ALASKAN SHELF		71	34.30	156	4.00	74	04	21	22			X		X	CTD		
ALASKAN SHELF		71	34.40	155	58.00	74	04	20	17		180	X		X	CTD		
ALASKAN SHELF		71	34.60	156	1.00	74	04	19	10			X		X	CTD		
ALASKAN SHELF		71	34.80	156	4.00	74	04	18	09			X		X	CTD		

ALASKAN SHELF	71	34.80	156	4.00	74	04	18	13			X		X	CTD
ALASKAN SHELF	71	34.80	156	4.00	74	04	18	15			X		X	CTD
ALASKAN SHELF	71	34.80	156	4.00	74	04	18	21			X		X	CTD
ALASKAN SHELF	71	35.20	156	7.00	74	04	17	09			X		X	CTD
ALASKAN SHELF	71	35.20	156	7.00	74	04	17	19			X		X	CTD
ALASKAN SHELF	71	36.00	156	8.00	74	04	16	11		164	X		X	CTD
ALASKAN SHELF	71	36.00	156	8.00	74	04	16	12			X		X	CTD
ALASKAN SHELF	71	36.70	156	3.00	74	04	15	08			X		X	CTD
ALASKAN SHELF	71	36.70	156	3.00	74	04	15	22			X		X	CTD
ALASKAN SHELF	71	37.50	155	57.00	74	04	14	19			X		X	CTD
ALASKAN SHELF	71	38.90	155	53.00	74	04	13	08			X		X	CTD
ALASKAN SHELF	71	38.90	155	53.00	74	04	13	18			X		X	CTD
ALASKAN SHELF	71	38.90	155	53.00	74	04	13	23			X		X	CTD
ALASKAN SHELF	71	39.80	155	49.00	74	04	12	17			X		X	CTD

*Estimated.

BOTTLE/CTD DATA SET NUMBER: 74-0038
YEAR:1974 VESSEL/AGENCY: UNIV. WASHINGTON, SEATTLE.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	137	70	45.00	160	5.00	74	07	28	20	28		X		X	CTD		
ALASKAN SHELF	138	70	50.00	159	45.00	74	07	28	21	25		X		X	CTD		
ALASKAN SHELF	139	70	55.00	159	5.00	74	07	29	01	32		X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 74-0039
YEAR:1974 VESSEL/AGENCY: UNIV. WASHINGTON, SEATTLE.

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	11	71	58.00	157	40.00*	74	09	20	00								
ALASKAN SHELF	12	71	50.00	157	20.00	74	09	20	02								
ALASKAN SHELF	13	71	40.00	157	0.00	74	09	20	04								
ALASKAN SHELF	14	71	35.00	156	55.00	74	09	20	05								
ALASKAN SHELF	15	71	31.00	156	45.00	74	09	20	06								
ALASKAN SHELF	16	71	28.00	156	40.00	74	09	20	09								
ALASKAN SHELF	17	71	27.00	156	30.00	74	09	20	11								
ALASKAN SHELF	16A	71	28.00	156	40.00	74	09	20	10								

*Estimated.

BOTTLE/CTD DATA SET NUMBER: 74-0048
YEAR:1974 VESSEL/AGENCY: STATEN ISLAND, MIZPAC '74?

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	33	70	44.00	159	58.00	74	8	10	12	15	20		X	X	BOTT		
ALASKAN SHELF	43	70	58.00	159	44.00	74	8	11	10	47	53		X	X	BOTT		
ALASKAN SHELF	44	70	50.20	159	30.00	74	8	11	11	15	22		X	X	BOTT		
ALASKAN SHELF	45	70	55.00	159	5.00	74	8	11	12	16	22		X	X	BOTT		
ALASKAN SHELF	46	71	3.90	159	12.30	74	8	11	14	76	77		X	X	BOTT		
ALASKAN SHELF	47	71	11.00	159	36.00	74	8	11	16	70	77		X	X	BOTT		
ALASKAN SHELF	48	71	25.00	159	22.00	74	8	11	23	45	51		X	X	BOTT		
ALASKAN SHELF	49	71	11.70	158	49.80	74	8	12	11	93	95		X	X	BOTT		
ALASKAN SHELF	50	71	5.00	158	47.00	74	8	12	13	45	49		X	X	BOTT		
ALASKAN SHELF	51	71	0.00	158	38.00	74	8	12	14	15	21		X	X	BOTT		
ALASKAN SHELF	52	70	56.00	157	54.50	74	8	12	17	15	20		X	X	BOTT		
ALASKAN SHELF	53	71	5.60	158	1.90	74	8	12	18	33	36		X	X	BOTT		
ALASKAN SHELF	54	71	13.00	158	24.00	74	8	12	21	90	90		X	X	BOTT		

ALASKAN SHELF	55	71	22.00	158	32.00	74	8	12	23	50	57		X	X	BOTT
ALASKAN SHELF	56	71	3.00	157	31.50	74	8	13	11	15	26		X	X	BOTT
ALASKAN SHELF	57	71	12.00	157	47.00	74	8	13	12	45	48		X	X	BOTT
ALASKAN SHELF	58	71	20.00	157	58.00	74	8	13	14	110	113		X	X	BOTT
ALASKAN SHELF	59	71	30.90	158	21.50	74	8	13	16	54	60		X	X	BOTT
ALASKAN SHELF	60	71	37.60	158	31.80	74	8	13	17	50	55		X	X	BOTT
ALASKAN SHELF	61	71	43.00	158	10.90	74	8	13	19	50	55		X	X	BOTT
ALASKAN SHELF	62	71	33.00	157	50.00	74	8	13	23	57	62		X	X	BOTT
ALASKAN SHELF	63	71	27.00	157	48.00	74	8	14	1	79	84		X	X	BOTT
ALASKAN SHELF	64	71	20.20	157	19.20	74	8	14	4	73	77		X	X	BOTT
ALASKAN SHELF	65	71	9.00	157	8.00	74	8	14	6	13	18		X	X	BOTT
ALASKAN SHELF	66	71	18.80	156	48.00	74	8	14	8	14	19		X	X	BOTT
ALASKAN SHELF	67	71	28.50	157	1.20	74	8	14	9	130	138		X	X	BOTT
ALASKAN SHELF	68	71	36.80	157	19.90	74	8	14	11	50	62		X	X	BOTT
ALASKAN SHELF	69	71	45.50	157	42.20	74	8	14	13	58	60		X	X	BOTT
ALASKAN SHELF	70	71	53.00	157	50.30	74	8	14	15	56	60		X	X	BOTT
ALASKAN SHELF	71	71	54.70	157	1.50	74	8	14	18	67	71		X	X	BOTT
ALASKAN SHELF	72	71	48.30	157	3.80	74	8	14	22	56	60		X	X	BOTT
ALASKAN SHELF	73	71	40.60	156	54.50	74	8	15		68	82		X	X	BOTT
ALASKAN SHELF	74	71	33.60	156	43.50	74	8	15	1	134	137		X	X	BOTT
ALASKAN SHELF	75	71	27.80	156	23.50	74	8	15	3	57	70		X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 74-0051
YEAR:1974 VESSEL/AGENCY: STATEN ISLAND, UNIV. ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	76	71	32.9	154	33.5	74	08	19		25	34	X		X	BOTT		
ALASKAN SLOPE	77	71	56.9	153	56.0	74	08	19		150	416	X		X	BOTT		
ALASKAN SHELF	78	71	27.0	152	35.0	74	08	19		50	68	X		X	BOTT		
ALASKAN SHELF	79	70	59.0	151	23.0	74	08	20		15	21	X		X	BOTT		
ALASKAN SLOPE	80	71	13.0	148	06.0	74	08	21		150	800	X		X	BOTT		
CANADA BASIN	81	71	25.8	147	33.7	74	08	22		150	2565	X		X	BOTT		
ALASKAN SHELF	82	70	52.0	148	00.0	74	08	22		30	40	X		X	BOTT		
ALASKAN SHELF	83	70	39.0	148	14.0	74	08	22		20	27	X		X	BOTT		
ALASKAN SHELF	84	70	15.1	143	26.0	74	09	01		25	30	X		X	BOTT		
ALASKAN SHELF	85	70	13.8	144	06.6	74	09	01		25	30	X		X	BOTT		
ALASKAN SHELF	86	70	12.5	145	00.0	74	09	02		25	27	X		X	BOTT		
ALASKAN SHELF	87	70	17.5	145	55.0	74	09	02		25	31	X		X	BOTT		
ALASKAN SHELF	88	70	21.4	146	18.0	74	09	02		25	27	X		X	BOTT		
ALASKAN SHELF	89	70	24.0	146	42.0	74	09	02		20	26	X		X	BOTT		
ALASKAN SHELF	90	70	30.6	147	17.7	74	09	03		20	27	X		X	BOTT		
ALASKAN SHELF	91	70	35.0	147	52.0	74	09	03		20	24	X		X	BOTT		
ALASKAN SHELF	92	70	46.1	147	39.0	74	09	03		40	42	X		X	BOTT		
ALASKAN SLOPE	93	71	00.5	147	19.4	74	09	03		150	325	X		X	BOTT		
ALASKAN SLOPE	94	71	14.0	146	59.0	74	09	03		150	2020	X		X	BOTT		
CANADA BASIN	95	71	35.5	146	27.6	74	09	04		150	3023	X		X	BOTT		
ALASKAN SLOPE	96	71	03.0	146	25.0	74	09	05		150	1052	X		X	BOTT		
ALASKAN SHELF	97	70	47.0	146	25.0	74	09	05		50	53	X		X	BOTT		
ALASKAN SHELF	98	70	30.4	146	23.5	74	09	05		25	35	X		X	BOTT		

*** 75-0005 listings in section 11.4***

BOTTLE/CTD DATA SET NUMBER: 75-0052
YEAR:1975 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, SEATTLE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		70	2.00	142	28.00	75	11	09			20	X		X	CTD		
ALASKAN SHELF		70	7.00	142	20.00	75	11	09			44	X		X	CTD		
ALASKAN SHELF		70	13.00	142	15.00	75	11	09			47	X		X	CTD		
ALASKAN SHELF		70	18.00	142	7.00	75	11	10			49	X		X	CTD		
ALASKAN SHELF		70	23.00	142	0.00	75	11	10			55	X		X	CTD		
ALASKAN SHELF		70	29.00	141	53.00	75	11	10			66	X		X	CTD		
ALASKAN SHELF		70	30.00	147	24.00	75	11	04			21	X		X	CTD		
ALASKAN SLOPE		70	34.00	141	47.00	75	11	07			304	X		X	CTD		

ALASKAN SHELF	70	35.00	147	11.00	75	11	04		35	X		X	CTD
ALASKAN SHELF	70	37.00	147	55.00	75	11	02		22	X		X	CTD
	70	41.00	141	39.00	75	11	06		598	X		X	CTD
ALASKAN SHELF	70	41.00	147	8.00	75	11	05		35	X		X	CTD
ALASKAN SHELF	70	45.00	147	45.00	75	11	02		37	X		X	CTD
ALASKAN SHELF	70	46.00	147	0.00	75	11	05		44	X		X	CTD
ALASKAN SHELF	70	50.00	147	37.00	75	11	03		40	X		X	CTD
	70	52.00	146	47.00	75	11	04		57	X		X	CTD
	70	57.00	146	43.00	75	11	04		67	X		X	CTD
	71	3.00	146	36.00	75	11	03		>1460	X		X	CTD
	71	8.00	146	29.00	75	11	03		>1460	X		X	CTD
ALASKAN SHELF	71	8.00	152	39.00	75	10	26		25	X		X	CTD
ALASKAN SHELF	71	11.00	152	38.00	75	11	01		37	X		X	CTD
ALASKAN SHELF	71	19.00	152	34.00	75	10	29		59	X		X	CTD
ALASKAN SHELF	71	21.00	152	35.00	75	10	31		102	X		X	CTD

BOTTLE/CTD DATA SET NUMBER: 75-0053
YEAR:1975 VESSEL/AGENCY: APL-UNIV. WASHINGTON, SEATTLE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
N OF BARROW		72	20.00	155	50.00*	75	03	27	21*	62		X		X	CTD		
N OF BARROW		72	23.00	157	23.00	75	04	02	08	70		X		X	CTD		
N OF BARROW		72	23.00	157	23.00	75	04	02	12	70		X		X	CTD		
N OF BARROW		72	23.00	157	23.00	75	04	02	16	70		X		X	CTD		
N OF BARROW		72	23.00	157	23.00	75	04	02	20	70		X		X	CTD		
N OF BARROW		72	24.00	157	10.00	75	03	31	08	70		X		X	CTD		
N OF BARROW		72	24.00	157	10.00	75	03	31	14	65		X		X	CTD		
N OF BARROW		72	24.00	157	10.00	75	03	31	15	69		X		X	CTD		
N OF BARROW		72	24.00	157	10.00	75	03	31	21	70		X		X	CTD		
N OF BARROW		72	24.00	157	18.00	75	04	01	08	70		X		X	CTD		
N OF BARROW		72	24.00	157	18.00	75	04	01	13	70		X		X	CTD		
N OF BARROW		72	24.00	157	18.00	75	04	01	18	70		X		X	CTD		
N OF BARROW		72	24.00	157	18.00	75	04	01	23	70		X		X	CTD		
N OF BARROW		72	25.00	157	8.00	75	03	30	09	65		X		X	CTD		
N OF BARROW		72	25.00	157	8.00	75	03	30	12	65		X		X	CTD		
N OF BARROW		72	25.00	157	8.00	75	03	30	16	70		X		X	CTD		
N OF BARROW		72	25.00	157	8.00	75	03	30	20	70		X		X	CTD		
N OF BARROW		72	25.00	157	8.00	75	03	30	23	72		X		X	CTD		
N OF BARROW		72	26.00	156	55.00	75	03	29	12	62		X		X	CTD		
N OF BARROW		72	26.00	156	55.00	75	03	29	15	64		X		X	CTD		
N OF BARROW		72	26.00	156	55.00	75	03	29	21	65		X		X	CTD		
N OF BARROW		72	30.00	157	29.00	75	04	03	00	70		X		X	CTD		
N OF BARROW		72	30.00	157	29.00	75	04	03	10	65		X		X	CTD		
N OF BARROW		72	30.00	157	29.00	75	04	03	11	64		X		X	CTD		
N OF BARROW		72	30.00	157	29.00	75	04	03	21	62		X		X	CTD		
N OF BARROW		72	30.00	159	13.00	75	04	08	01	53		X		X	CTD		
N OF BARROW		72	30.00	159	13.00	75	04	08	08	53		X		X	CTD		
N OF BARROW		72	30.00	159	13.00	75	04	08	12	53		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	00	66		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	08	68		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	10	99		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	12	66		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	20	100		X		X	CTD		
N OF BARROW		72	31.00	157	48.00	75	04	04	20	67		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	00	66		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	08	67		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	13	95		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	16	93		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	20	78		X		X	CTD		
N OF BARROW		72	32.00	158	12.00	75	04	05	24	70		X		X	CTD		
N OF BARROW		72	33.00	158	33.00	75	04	06	08	64		X		X	CTD		
N OF BARROW		72	33.00	158	33.00	75	04	06	12	61		X		X	CTD		
N OF BARROW		72	33.00	158	33.00	75	04	06	16	58		X		X	CTD		
N OF BARROW		72	33.00	158	33.00	75	04	06	20	56		X		X	CTD		
N OF BARROW		72	34.00	158	55.00	75	04	07	00	56		X		X	CTD		
N OF BARROW		72	34.00	158	55.00	75	04	07	08	54		X		X	CTD		
N OF BARROW		72	34.00	158	55.00	75	04	07	12	53		X		X	CTD		
N OF BARROW		72	34.00	158	55.00	75	04	07	16	53		X		X	CTD		
N OF BARROW		72	34.00	158	55.00	75	04	07	22	53		X		X	CTD		

*Locations approximate; Local time.

BOTTLE/CTD DATA SET NUMBER: 75-0054
YEAR:1975 VESSEL/AGENCY: APL, U.WASHINGTON ; AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
N OF BARROW	7	72 3.00	153 50.00*	75 04 24 11*	73		X		X	CTD	
N OF BARROW	9	72 8.00	153 50.00	75 04 24 13	128		X		X	CTD	
N OF BARROW	10	71 55.00	153 50.00	75 04 24 13	125		X		X	CTD	
N OF BARROW	11	71 44.00	152 10.00	75 04 24 14	80		X		X	CTD	
N OF BARROW	12	71 52.00	155 39.00	75 04 24 16	123		X		X	CTD	
N OF BARROW	13	71 37.00	156 10.00	75 04 24 17	130		X		X	CTD	
N OF BARROW	14	71 33.00	155 50.00	75 04 27 11	168		X		X	CTD	
N OF BARROW	15	71 49.00	154 51.00	75 04 27 12	189		X		X	CTD	
N OF BARROW	16	71 31.00	154 18.00	75 04 27 13	39		X		X	CTD	
N OF BARROW	17	71 36.00	153 9.00	75 04 27 14	58		X		X	CTD	
N OF BARROW	18	71 33.00	152 18.00	75 04 27 15	138		X		X	CTD	
N OF BARROW	19	71 30.00	151 31.00	75 04 27 17	192		X		X	CTD	
N OF BARROW	18A	71 33.00	152 18.00	75 04 27 15	138		X		X	CTD	

*Locations approximate; Local time.

BOTTLE/CTD DATA SET NUMBER: 75-0055
YEAR:1975 VESSEL/AGENCY: APL,AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
N OF BARROW	A1	71 23.00	153 29.00*	75 05 14 11*	45		X		X	CTD	
N OF BARROW	A2	71 36.00	152 14.00	75 05 14 12	112		X		X	CTD	
N OF BARROW	A3	71 42.00	151 47.00	75 05 14 13	191		X		X	CTD	
N OF BARROW	A4	71 49.00	151 14.00	75 05 14 14	187		X		X	CTD	
N OF BARROW	A5	72 5.00	153 4.00	75 05 14 15	186		X		X	CTD	
N OF BARROW	A6	71 57.00	153 18.00	75 05 14 16	187		X		X	CTD	
N OF BARROW	A7	71 50.00	153 28.00	75 05 14 17	55		X		X	CTD	
N OF BARROW	A8	71 28.00	154 21.00	75 05 14 18	37		X		X	CTD	
N OF BARROW	B1	71 32.00	156 8.00	75 05 15 10	117		X		X	CTD	
N OF BARROW	B2	71 40.00	155 40.00	75 05 15 11	175		X		X	CTD	
N OF BARROW	B3	71 45.00	155 4.00	75 05 15 12	167		X		X	CTD	
N OF BARROW	B4	71 49.00	154 56.00	75 05 15 13	187		X		X	CTD	
N OF BARROW	B5	71 57.00	154 50.00	75 05 15 15	190		X		X	CTD	
N OF BARROW	B6	72 5.00	154 45.00	75 05 15 15	191		X		X	CTD	
N OF BARROW	C1	71 52.00	156 30.00	75 05 19 10	64		X		X	CTD	
N OF BARROW	C2	72 3.00	155 55.00	75 05 19 12	189		X		X	CTD	
N OF BARROW	C3	72 21.00	155 9.00	75 05 19 13	184		X		X	CTD	
N OF BARROW	C4	72 22.00	154 0.00	75 05 19 14	191		X		X	CTD	
N OF BARROW	C5	72 19.00	152 26.00	75 05 19 15	188		X		X	CTD	
N OF BARROW	C6	71 33.00	156 58.00	75 05 19 17	122		X		X	CTD	
N OF BARROW	B4B	71 49.00	154 56.00	75 05 15 14	182		X		X	CTD	

*Locations approximate; Local time.

BOTTLE/CTD DATA SET NUMBER: 75-0056
YEAR:1975 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
N OF BARROW	1	71 40.00	155 30.00*	75 10 23 16*	156		X		X	CTD	
N OF BARROW	2	71 11.00	152 49.00	75 10 26 13	24		X		X	CTD	
N OF BARROW	3	71 27.00	157 43.00	75 10 31 10	112		X		X	CTD	
N OF BARROW	4	71 31.00	158 42.00	75 10 31 15	58		X		X	CTD	
N OF BARROW	5	72 3.00	154 28.00	75 11 01 15	183		X		X	CTD	
N OF BARROW	6	71 37.00	155 26.00	75 11 05 12	122		X		X	CTD	
N OF BARROW	7	71 33.00	153 29.00	75 11 05 13	54		X		X	CTD	

N OF BARROW	8	71	51.00	152	12.00	75	11	06	12	186		X		X CTD

*Locations approximate; Local time.

BOTTLE/CTD DATA SET NUMBER: 75-0039
YEAR:1975 VESSEL/AGENCY: ALASKA DEPT. FISH & GAME

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT MO HR
ALASKAN SHELF		70	9.00	147	3.00	75	08	12				X		X	CTD	
ALASKAN SHELF		70	10.00	145	53.00	75	08	11				X		X	CTD	
ALASKAN SHELF		70	10.00	145	56.00	75	08	11				X		X	CTD	
ALASKAN SHELF		70	10.00	145	56.00	75	09	22				X		X	CTD	
ALASKAN SHELF		70	10.00	146	16.00	75	09	22				X		X	CTD	
ALASKAN SHELF		70	10.00	146	45.00	75	08	11				X		X	CTD	
ALASKAN SHELF		70	10.00	146	45.00	75	08	13				X		X	CTD	
ALASKAN SHELF		70	10.00	146	45.00	75	09	22				X		X	CTD	
ALASKAN SHELF		70	11.00	146	23.00	75	08	11				X		X	CTD	
ALASKAN SHELF		70	12.00	146	11.00	75	08	11				X		X	CTD	
ALASKAN SHELF		70	12.00	146	11.00	75	09	22				X		X	CTD	
STEFANSSON SD.		70	12.00	147	14.00	75	08	12				X		X	CTD	
STEFANSSON SD.		70	12.00	147	32.00	75	08	12				X		X	CTD	
STEFANSSON SD.		70	12.00	147	34.00	75	08	18				X		X	CTD	
ALASKAN SHELF		70	13.00	146	34.00	75	08	11				X		X	CTD	
STEFANSSON SD.		70	13.00	147	10.00	75	09	22				X		X	CTD	
STEFANSSON SD.		70	13.00	147	46.00	75	08	12				X		X	CTD	
ALASKAN SHELF		70	14.00	146	25.00	75	09	22				X		X	CTD	
STEFANSSON SD.		70	15.00	147	45.00	75	08	01				X		X	CTD	
STEFANSSON SD.		70	18.00	147	4.00	75	08	12				X		X	CTD	
STEFANSSON SD.		70	19.00	147	43.00	75	08	01				X		X	CTD	
STEFANSSON SD.		70	19.00	147	57.00	75	08	01				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	08	17				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	08	18				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	09	16				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	09	16				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	09	17				X		X	CTD	
PRUDHOE		70	19.00	148	18.00	75	09	17				X		X	CTD	
ALASKAN SHELF		70	20.00	148	12.00	75	08	01				X		X	CTD	
ALASKAN SHELF		70	20.00	148	14.00	75	09	17				X		X	CTD	
ALASKAN SHELF		70	22.00	148	12.00	75	09	18				X		X	CTD	
PRUDHOE		70	22.00	148	21.00	75	09	18				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	07	31				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	02				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	02				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	02				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	03				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	15				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	17				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	19				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	20				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	20				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	20				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	21				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	22				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	23				X		X	CTD	
PRUDHOE		70	22.00	148	32.00	75	08	23				X		X	CTD	
ALASKAN SHELF		70	24.00	148	38.00	75	08	13				X		X	CTD	
ALASKAN SHELF		70	24.00	148	49.00	75	08	13				X		X	CTD	
ALASKAN SHELF		70	25.00	148	35.00	75	08	13				X		X	CTD	
ALASKAN SHELF		70	27.00	147	55.00	75	08	13				X		X	CTD	
ALASKAN SHELF		70	28.00	148	14.00	75	08	13				X		X	CTD	

BOTTLE/CTD DATA SET NUMBER: 75-0072
YEAR:1975 VESSEL/AGENCY: U.LOUISVILLE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ELSON LAGOON	1	71	21.2	156	32.2	75	08	20		1.0			X	X	BOTT	
ELSON LAGOON	2	71	21.2	156	32.2	75	08	20		1.0			X	X	BOTT	
ELSON LAGOON	3	71	25.0	156	20.0	75	08	28		1.0			X	X	BOTT	
BARROW	4	71	15.7	156	00.0	75	08	28		1.0			X	X	BOTT	
BARROW	5	71	20.8	156	35.2	75	08	30					X		BOTT	
ELSON LAGOON	6	71	19.0	156	15.8	75	08	31		1.0			X	X	BOTT	
ELSON LAGOON	6A	71	21.2	156	32.2	75	08	21		1.0			X	X	BOTT	
BARROW	7	71	15.7	156	00.0	75	08	31		1.0			X	X	BOTT	
BARROW	7A	71	21.5	156	26.2	75	08	21		1.0			X	X	BOTT	
BARROW	8	71	21.0	156	42.2	75	08	31		1.0			X	X	BOTT	
ELSON LAGOON	9	71	21.5	156	21.1	75	09	05		1.0			X	X	BOTT	
ELSON LAGOON	9A	71	21.5	156	21.1	75	08	21		1.0			X	X	BOTT	
	10	71	22.1	156	21.7	75	09	05		1.0			X	X	BOTT	
OLIKTOK POINT	11	70	30.6	149	34.2	75	09	05		1.0			X	X	BOTT	
	11B	71	22.1	156	21.7	75	08	21		1.0			X	X	BOTT	
PRUDHOE BAY	12	70	26.5	149	03.1	75	09	05		1.0			X	X	BOTT	
	12A	71	19.7	156	40.9	75	08	26		1.0			X	X	BOTT	
PRUDHOE BAY	13	70	20.0	148	22.1	75	09	05		1.0			X	X	BOTT	
	13A	71	19.7	156	40.9	75	08	27		1.0			X		BOTT	
	13B	71	19.7	156	40.9	75	08	28		1.0			X	X	BOTT	
PRUDHOE BAY	14	70	19.1	148	19.3	75	09	08		1.0			X	X	BOTT	
	14A	71	19.7	156	40.9	75	08	27		1.0			X	X	BOTT	
PRUDHOE BAY	15	70	20.3	148	20.0	75	09	08		1.0			X	X	BOTT	
PRUDHOE BAY	16	70	20.3	148	20.0	75	09	08		2.3			X	X	BOTT	
PRUDHOE BAY	17	70	20.9	148	23.9	75	09	08		1.0			X	X	BOTT	
PRUDHOE BAY	18	70	20.1	148	26.0	75	09	08		1.0			X	X	BOTT	
ELSON LAGOON	19	71	21.2	156	32.2	75	09	11		1.0			X	X	BOTT	
	19A	71	20.8	156	35.2	75	08	30		1.0			X	X	BOTT	
ELSON LAGOON	20	71	21.5	156	26.2	75	09	11		1.0			X	X	BOTT	
ELSON LAGOON	21	71	21.5	156	21.1	75	09	11		1.0			X	X	BOTT	
ELSON LAGOON	22	71	22.1	156	21.7	75	09	11		1.0			X	X	BOTT	
PRUDHOE BAY	23	70	19.1	148	19.3	75	09	12		1.0			X	X	BOTT	
PRUDHOE BAY	24	70	20.3	148	20.0	75	09	12		1.0			X	X	BOTT	
	24A	71	21.0	156	42.2	75	09	02		1.0			X	X	BOTT	
PRUDHOE BAY	25	70	21.7	148	20.8	75	09	12		1.0			X	X	BOTT	
PRUDHOE BAY	26	70	24.5	148	22.3	75	09	12		1.0			X	X	BOTT	
	26A	71	21.2	156	32.2	75	09	05		1.0			X	X	BOTT	
PRUDHOE BAY	27	70	26.6	148	23.5	75	09	12		1.0			X	X	BOTT	
PRUDHOE BAY	28	70	21.8	148	17.8	75	09	13		1.0			X	X	BOTT	
	28A	71	21.5	156	26.2	75	09	05		1.0			X	X	BOTT	
PRUDHOE BAY	29	70	20.0	148	22.1	75	09	13		1.0			X	X	BOTT	
PRUDHOE BAY	30	70	22.9	148	21.4	75	09	13		1.0			X	X	BOTT	
PRUDHOE BAY	31	70	24.5	148	22.3	75	09	13		1.0			X	X	BOTT	
PRUDHOE BAY	32	70	26.6	148	23.5	75	09	13		1.0			X	X	BOTT	
PRUDHOE BAY	33	70	24.6	148	26.0	75	09	14		1.0			X	X	BOTT	
PRUDHOE BAY	34	70	23.6	148	27.3	75	09	14		1.0			X	X	BOTT	
ELSON LAGOON	35	71	21.2	156	32.2	75	09	17		1.0			X	X	BOTT	
ELSON LAGOON	36	71	21.5	156	26.2	75	09	17		1.0			X	X	BOTT	
ELSON LAGOON	37	71	21.5	156	21.1	75	09	17		1.0			X	X	BOTT	
BARROW	38	71	17.2	156	48.5	75	09	23					X		BOTT	
BARROW	39	71	17.9	156	46.3	75	09	23					X		BOTT	
BARROW	40	71	18.8	156	43.4	75	09	23					X		BOTT	
ELSON LAGOON	41	71	20.9	156	35.2	75	09	23		0.0			X	X	BOTT	
BARROW	42	71	20.8	156	35.2	75	09	23		0.0			X	X	BOTT	
BARROW	43	71	23.1	156	29.2	75	09	25		0.0			X	X	BOTT	
	79	71	19.7	156	40.9	75	09	16		1.0			X	X	BOTT	
	80	71	20.8	156	35.2	75	09	16		1.0			X	X	BOTT	
	81	71	20.8	156	35.2	75	09	17		1.0			X	X	BOTT	
	82	71	20.8	156	35.2	75	09	16		1.0			X		BOTT	
	83	71	20.8	156	35.2	75	09	16		1.0			X		BOTT	
	84	71	20.8	156	35.2	75	09	16		1.0			X		BOTT	
	91	71	20.9	156	35.2	75	09	20		1.0			X	X	BOTT	
	92	71	20.8	156	35.2	75	09	20		1.0			X	X	BOTT	
	93	71	20.8	156	35.2	75	09	20		1.0			X		BOTT	
	94	71	20.8	156	35.2	75	09	20		1.0			X		BOTT	
	95	71	20.8	156	35.2	75	09	21		1.0			X	X	BOTT	
	101	71	30.0	156	06.0	76	04	05		1.0			X	X	BOTT	
	102	71	34.5	155	35.0	76	04	05		1.0			X	X	BOTT	
	103	71	39.0	155	04.0	76	04	05		1.0			X	X	BOTT	
	104	71	21.6	156	21.0	76	04	05		1.0			X	X	BOTT	
	105	71	23.0	155	56.0	76	04	07		1.0			X	X	BOTT	

	106	71	23.0	155	26.0	76	04	07	1.0	X	X	BOTT
	107	71	23.0	154	54.0	76	04	07	1.0	X	X	BOTT
	107A	71	21.6	156	21.0	76	04	09	1.0	X	X	BOTT
ELSON LAGOON	108	71	21.4	156	27.0	76	04	10	1.0	X	X	BOTT
ELSON LAGOON	109	71	21.6	156	21.0	76	04	10	1.0	X	X	BOTT
PRUDHOE BAY	110	71	08.0	146	30.0	76	04	14	1.0	X	X	BOTT
PRUDHOE BAY	111	70	32.0	148	22.0	76	04	12	1.0	X	X	BOTT
PRUDHOE BAY	112	70	31.0	147	24.0	76	04	12	1.0	X	X	BOTT
PRUDHOE BAY	113	70	28.0	147	30.0	76	04	12	1.0	X	X	BOTT
PRUDHOE BAY	114	70	47.0	147	00.0	76	04	14	1.0	X	X	BOTT
PITT POINT	116	71	36.0	152	12.0	76	04	16	1.0	X	X	BOTT
PITT POINT	117	71	46.0	151	52.0	76	04	16	1.0	X	X	BOTT
PITT POINT	118	71	26.0	152	22.0	76	04	16	1.0	X	X	BOTT
PITT POINT	119	71	19.0	152	33.0	76	04	16	1.0	X	X	BOTT
PITT POINT	120	71	08.0	152	55.0	76	04	18	1.0	X	X	BOTT
BARROW	121	71	23.0	153	30.0	76	04	18	1.0	X	X	BOTT
BARROW	122	71	23.0	154	22.0	76	04	18	1.0	X	X	BOTT
BARROW	123	71	34.5	155	35.0	76	04	18	1.0	X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 76-0037
YEAR:1976 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF		70	7.00	142	23.00	76	02	28				X		X	CTD	
ALASKAN SHELF		70	13.00	142	15.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	18.00	142	7.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	24.00	141	57.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	29.00	141	54.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	29.00	147	24.00	76	02	25				X		X	CTD	
		70	34.00	141	45.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	35.00	147	16.00	76	02	25				X		X	CTD	
		70	40.00	141	37.00	76	02	29				X		X	CTD	
ALASKAN SHELF		70	40.00	147	9.00	76	02	25				X		X	CTD	
ALASKAN SHELF		70	47.00	146	59.00	76	02	26				X		X	CTD	
		70	57.00	146	44.00	76	02	27				X		X	CTD	
		70	57.00	146	44.00	76	02	27				X		X	CTD	
		71	2.00	146	37.00	76	02	26				X		X	CTD	
ALASKAN SHELF		71	6.00	152	52.00	76	02	20				X		X	CTD	
ALASKAN SHELF		71	6.00	152	52.00	76	02	20				X		X	CTD	
ALASKAN SHELF		71	12.00	152	43.00	76	02	20				X		X	CTD	
ALASKAN SHELF		71	17.00	152	36.00	76	02	21				X		X	CTD	
ALASKAN SHELF		71	17.00	152	36.00	76	02	21				X		X	CTD	
		71	23.00	152	27.00	76	02	21				X		X	CTD	
		71	28.00	152	21.00	76	02	21				X		X	CTD	
		71	34.00	152	11.00	76	02	22				X		X	CTD	
		71	39.00	152	3.00	76	02	23				X		X	CTD	
		71	45.00	151	54.00	76	02	24				X		X	CTD	

BOTTLE/CTD DATA SET NUMBER: 76-0039
YEAR:1976 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, SEATTLE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF		70	7.00	142	21.00	76	05	29				X		X	CTD	
ALASKAN SHELF		70	12.00	142	14.00	76	05	25				X		X	CTD	
ALASKAN SHELF		70	17.00	142	6.00	76	05	29				X		X	CTD	
ALASKAN SHELF		70	23.00	141	59.00	76	05	29				X		X	CTD	
ALASKAN SHELF		70	28.00	141	51.00	76	05	29				X		X	CTD	
		70	33.00	141	44.00	76	05	28				X		X	CTD	
ALASKAN SHELF		70	35.00	147	12.00	76	05	23				X		X	CTD	
ALASKAN SHELF		70	40.00	147	4.00	76	05	23				X		X	CTD	
ALASKAN SHELF		70	46.00	146	56.00	76	05	23				X		X	CTD	
		70	52.00	146	47.00	76	05	23				X		X	CTD	
		70	57.00	146	41.00	76	05	23				X		X	CTD	

	71	3.00	146	33.00	76	05	23			X		X	CTD	
	71	7.00	146	25.00	76	05	23			X		X	CTD	
ALASKAN SHELF	71	7.00	152	46.00	76	05	19			X		X	CTD	
ALASKAN SHELF	71	11.00	152	44.00	76	05	19			X		X	CTD	
ALASKAN SHELF	71	17.00	152	36.00	76	05	19			X		X	CTD	
	71	23.00	152	28.00	76	05	19			X		X	CTD	
	71	28.00	152	20.00	76	05	19			X		X	CTD	
	71	33.00	152	12.00	76	05	19			X		X	CTD	
	71	38.00	152	6.00	76	05	19			X		X	CTD	

BOTTLE/CTD DATA SET NUMBER: 76-0040
YEAR:1976 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, SEATTLE

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT	NO HR
		70	52.00	149	24.00	76	11	01				X		X	CTD		
ALASKAN SHELF		70	55.00	150	8.00	76	10	31				X		X	CTD		
		70	57.00	149	21.00	76	11	01				X		X	CTD		
ALASKAN SHELF		70	59.00	150	7.00	76	10	31				X		X	CTD		
		71	2.00	149	19.00	76	11	01				X		X	CTD		
ALASKAN SHELF		71	4.00	150	4.00	76	10	31				X		X	CTD		
		71	7.00	149	18.00	76	11	01				X		X	CTD		
		71	8.00	149	18.00	76	11	01				X		X	CTD		
ALASKAN SHELF		71	9.00	150	2.00	76	10	31				X		X	CTD		
		71	12.00	149	17.00	76	11	01				X		X	CTD		
ALASKAN SHELF		71	12.00	152	18.00	76	11	03				X		X	CTD		
		71	14.00	149	59.00	76	10	31				X		X	CTD		
		71	15.00	149	14.00	76	10	31				X		X	CTD		
		71	17.00	152	10.00	76	11	03				X		X	CTD		
		71	19.00	149	57.00	76	10	31				X		X	CTD		
		71	21.00	152	4.00	76	11	03				X		X	CTD		
ALASKAN SHELF		71	21.00	152	58.00	76	11	04				X		X	CTD		
ALASKAN SHELF		71	25.00	152	49.00	76	11	04				X		X	CTD		
		71	26.00	151	58.00	76	11	03				X		X	CTD		
ALASKAN SHELF		71	30.00	152	43.00	76	11	04				X		X	CTD		
		71	31.00	151	50.00	76	11	03				X		X	CTD		
ALASKAN SHELF		71	35.00	152	36.00	76	11	04				X		X	CTD		
		71	39.00	152	28.00	76	11	04				X		X	CTD		
		71	44.00	152	23.00	76	11	04				X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 76-0043
YEAR:1976 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	1	INSTR	INT	NO HR
BARROW	51	71	11.00	159	46.00*	76	04	06	14*	124		X		X	CTD		
BARROW	52	71	7.00	159	38.00	76	04	06	15	56		X		X	CTD		
BARROW	53	71	2.00	159	29.00	76	04	06	15	70		X		X	CTD		
BARROW	54	70	56.00	159	32.00	76	04	06	15	45		X		X	CTD		
BARROW	55	70	52.00	159	24.00	76	04	06	16	22		X		X	CTD		
BARROW	56	70	42.00	160	13.00	76	04	06	17	32		X		X	CTD		
BARROW	57	70	47.00	160	25.00	76	04	06	17	52		X		X	CTD		
BARROW	58	70	53.00	160	44.00	76	04	06	17	60		X		X	CTD		
BARROW	59	71	42.00	157	37.00	76	04	07	10	63		X		X	CTD		
BARROW	60	71	37.00	157	26.00	76	04	07	11	74		X		X	CTD		
BARROW	61	71	30.00	157	11.00	76	04	07	11	102		X		X	CTD		
BARROW	62	71	20.00	156	57.00	76	04	07	13	91		X		X	CTD		
BARROW	63	71	26.00	157	10.00	76	04	07	14	132		X		X	CTD		
BARROW	64	71	31.00	157	27.00	76	04	07	15	94		X		X	CTD		
BARROW	65	71	28.00	156	28.00	76	04	07	16	77		X		X	CTD		
BARROW	66	71	32.00	156	39.00	76	04	07	16	130		X		X	CTD		
BARROW	67	71	37.00	156	48.00	76	04	07	16	105		X		X	CTD		
BARROW	68	71	43.00	156	52.00	76	04	07	17	70		X		X	CTD		
BARROW	69	71	32.00	156	0.00	76	04	08	09	171		X		X	CTD		
BARROW	70	71	37.00	155	48.00	76	04	08	09	156		X		X	CTD		

BARROW	71	71	43.00	155	52.00	76	04	08	10	98		X	X	CTD
BARROW	72	71	46.00	155	52.00	76	04	08	10	91		X	X	CTD
BARROW	73	71	51.00	155	59.00	76	04	08	10	79		X	X	CTD
BARROW	74	71	57.00	156	8.00	76	04	08	11	60		X	X	CTD
BARROW	75	71	8.00	157	59.00	76	04	08	13	30		X	X	CTD
BARROW	76	71	12.00	158	2.00	76	04	08	14	48		X	X	CTD
BARROW	77	71	19.00	158	11.00	76	04	08	14	110		X	X	CTD
BARROW	78	71	27.00	158	20.00	76	04	08	14	63		X	X	CTD
BARROW	79	71	33.00	158	21.00	76	04	08	15	55		X	X	CTD
BARROW	80	71	30.00	155	21.00	76	04	09	09	24		X	X	CTD
BARROW	81	71	31.00	154	53.00	76	04	09	09	29		X	X	CTD
BARROW	82	71	34.00	154	29.00	76	04	09	10	35		X	X	CTD
BARROW	83	71	37.00	153	48.00	76	04	09	10	43		X	X	CTD
BARROW	84	71	23.00	153	30.00	76	04	09	11	44		X	X	CTD
BARROW	85	71	32.00	155	39.00	76	04	09	13	138		X	X	CTD
BARROW	86	71	38.00	155	15.00	76	04	09	14	166		X	X	CTD
BARROW	87	71	45.00	154	58.00	76	04	09	14	170		X	X	CTD
BARROW	88	72	1.00	154	16.00	76	04	11	11	273		X	X	CTD
BARROW	89	71	55.00	154	42.00	76	04	11	11	265		X	X	CTD
BARROW	90	71	45.00	155	10.00	76	04	11	12	235		X	X	CTD
BARROW	91	71	38.00	155	30.00	76	04	11	13	220		X	X	CTD
BARROW	92	71	10.00	159	20.00	76	04	11		82		X	X	CTD
BARROW	93	71	7.00	159	19.00	76	04	11		83		X	X	CTD
BARROW	94	71	2.00	159	10.00	76	04	11		83		X	X	CTD
BARROW	95	70	56.00	159	10.00	76	04	11		53		X	X	CTD

*Locations estimated; times local.

BOTTLE/CTD DATA SET NUMBER: 76-0044
YEAR:1976 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
N OF BARROW	A1	72	11.00	154	1.00*	76	09	04	12*	294		X		X	CTD		
N OF BARROW	A2	72	3.00	154	23.00	76	09	04	14	214		X		X	CTD		
N OF BARROW	A3	71	54.00	154	47.00	76	09	04	14	284		X		X	CTD		
N OF BARROW	A4	71	47.00	155	18.00	76	09	05	16	350		X		X	CTD		
N OF BARROW	A5	71	40.00	155	41.00	76	09	05	17	184		X		X	CTD		
N OF BARROW	A6	71	30.00	156	8.00	76	09	05	17	140		X		X	CTD		
N OF BARROW	A7	71	28.00	156	32.00	76	09	05	17	162		X		X	CTD		
N OF BARROW	B1	71	31.00	156	3.00	76	09	19	14	184		X		X	CTD		
N OF BARROW	B2	71	25.00	156	7.00	76	09	19	14	185		X		X	CTD		
N OF BARROW	B3	71	38.00	156	10.00	76	09	19	13	172		X		X	CTD		
N OF BARROW	B4	71	41.00	156	13.00	76	09	19	12	168		X		X	CTD		
N OF BARROW	B5	71	45.00	156	19.00	76	09	19	12	102		X		X	CTD		
N OF BARROW	B6	71	49.00	156	24.00	76	09	19	13	82		X		X	CTD		
N OF BARROW	B7	71	55.00	156	29.00	76	09	19	13	65		X		X	CTD		
N OF BARROW	B8	72	0.00	156	32.00	76	09	20	19	82		X		X	CTD		
N OF BARROW	C1	71	20.00	157	9.00	76	09	19	10	56		X		X	CTD		
N OF BARROW	C2	71	23.00	157	21.00	76	09	19	11	106		X		X	CTD		
N OF BARROW	C3	71	28.00	157	27.00	76	09	19	11	121		X		X	CTD		
N OF BARROW	C4	71	32.00	157	38.00	76	09	19	11	98		X		X	CTD		
N OF BARROW	C5	71	36.00	157	43.00	76	09	19	11	70		X		X	CTD		
N OF BARROW	C6	71	44.00	157	57.00	76	09	20	19	60		X		X	CTD		
N OF BARROW	C7	71	54.00	158	10.00	76	09	20	19	60		X		X	CTD		

*Locations estimated; times local.

BOTTLE/CTD DATA SET NUMBER: 76-0045
YEAR:1976 VESSEL/AGENCY: ALASKA DEPT. FISH & GAME

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE		70	19.00	148	15.00	76	06	22				X		X	CTD		
PRUDHOE		70	19.00	148	15.00	76	06	22				X		X	CTD		
PRUDHOE		70	19.00	148	15.00	76	06	23				X		X	CTD		
PRUDHOE		70	19.00	148	15.00	76	06	24				X		X	CTD		
PRUDHOE		70	19.00	148	15.00	76	06	25				X		X	CTD		
PRUDHOE		70	19.00	148	16.00	76	06	22				X		X	CTD		

PRUDHOE	70	19.00	148	16.00	76	06	22	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	23	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	24	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	25	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	28	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	28	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	29	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	06	30	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	07	01	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	07	02	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	07	03	X	X CTD
PRUDHOE	70	19.00	148	16.00	76	07	04	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	22	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	22	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	23	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	24	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	25	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	26	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	26	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	27	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	27	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	28	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	28	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	29	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	29	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	30	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	06	30	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	01	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	01	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	02	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	03	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	04	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	04	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	05	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	06	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	06	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	07	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	08	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	09	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	10	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	11	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	12	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	13	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	14	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	15	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	16	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	17	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	18	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	19	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	20	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	21	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	22	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	23	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	24	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	25	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	26	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	27	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	27	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	28	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	28	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	29	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	29	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	30	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	30	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	31	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	07	31	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	01	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	01	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	02	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	02	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	03	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	03	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	04	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	04	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	05	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	05	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	06	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	06	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	07	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	07	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	08	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	08	X	X CTD
PRUDHOE	70	19.00	148	17.00	76	08	09	X	X CTD

PRUDHOE	70	19.00	148	17.00	76	08	09	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	10	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	10	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	12	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	12	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	12	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	12	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	14	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	14	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	14	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	14	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	15	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	15	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	16	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	16	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	17	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	17	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	18	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	18	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	19	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	19	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	20	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	20	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	21	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	21	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	22	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	22	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	23	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	23	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	24	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	24	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	25	X	X	CTD
PRUDHOE	70	19.00	148	17.00	76	08	25	X	X	CTD
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PRUDHOE	70	23.00	148	32.00	76	08	31	X	X	CTD
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PRUDHOE	70	23.00	148	32.00	76	09	01	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	01	X	X	CTD
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PRUDHOE	70	23.00	148	32.00	76	09	01	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	02	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	02	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	02	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	02	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	04	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	05	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	05	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	05	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	05	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	06	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	06	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	06	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	06	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	07	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	07	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	07	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	07	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	08	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	08	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	08	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	08	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	09	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	09	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	09	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	09	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	10	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	10	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	10	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	10	X	X	CTD

PRUDHOE	70	23.00	148	32.00	76	09	11	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	11	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	11	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	11	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	12	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	12	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	12	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	12	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	13	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	13	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	13	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	13	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	14	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	14	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	14	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	14	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	15	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	15	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	15	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	15	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	16	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	16	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	16	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	16	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	17	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	17	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	18	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	18	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	19	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	19	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	20	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	20	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	21	X	X	CTD
PRUDHOE	70	23.00	148	32.00	76	09	21	X	X	CTD
PRUDHOE	70	24.00	148	32.00	76	07	29	X	X	CTD
PRUDHOE	70	24.00	148	32.00	76	07	29	X	X	CTD
PRUDHOE	70	24.00	148	32.00	76	07	30	X	X	CTD
PRUDHOE	70	24.00	148	32.00	76	07	31	X	X	CTD
PRUDHOE	70	24.00	148	32.00	76	08	01	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	07	19	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	07	24	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	07	29	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	07	31	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	04	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	08	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	13	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	18	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	26	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	08	31	X	X	CTD
ALASKAN SHELF	70	24.00	148	33.00	76	09	06	X	X	CTD

BOTTLE/CTD DATA SET NUMBER: 76-0046
YEAR:1976 VESSEL/AGENCY: ALASKA FISH & GAME

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	4	70 24.00	148 31.50	76 03 21			X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 76-0057
YEAR:1976 VESSEL/AGENCY: GLACIER

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	12	71 31.5	156 09.0	76 08 17 15	100	139	X		X	BOTT		
ALASKAN SHELF	13	71 31.0	155 05.0	76 08 18 15	25	31	X		X	BOTT		
ALASKAN SHELF	14	71 11.0	153 09.0	76 08 21 01	20	25	X		X	BOTT		
ALASKAN SHELF	15	70 36.0	148 12.0	76 08 24 00	15	16	X		X	BOTT		
ALASKAN SHELF	17	70 32.0	147 33.0	76 08 26 05	20	25	X		X	BOTT		
ALASKAN SHELF	18	70 39.0	147 37.0	76 08 26 18	15	25	X		X	BOTT		
ALASKAN SHELF	19	70 57.0	149 33.0	76 08 27 09	25	30	X		X	BOTT		
ALASKAN SHELF	20	71 08.0	151 19.0	76 08 28 23	15	34	X		X	BOTT		
ALASKAN SLOPE	21A	71 43.0	151 47.0	76 08 29 23	1000	1700	X		X	BOTT		
ALASKAN SLOPE	21B	71 43.0	151 47.0	76 08 29 23	500	1700	X		X	BOTT		
ALASKAN SLOPE	21C	71 43.0	151 47.0	76 08 30 00	25	1700	X		X	BOTT		
ALASKAN SHELF	23	71 22.0	152 20.0	76 08 31 01	75	75	X		X	BOTT		
ALASKAN SHELF	24	71 19.0	152 32.0	76 08 31 17	45	52	X		X	BOTT		
ALASKAN SHELF	25	71 08.0	152 57.0	76 09 01 16	15	22	X		X	BOTT		
ALASKAN SHELF	26	71 23.0	154 21.0	76 09 02 14	25	30	X		X	BOTT		
ALASKAN SHELF	27	71 36.0	155 32.0	76 09 02 21	30	171	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 76-0058
YEAR:1976 VESSEL/AGENCY: CRREL,U ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	PB1	70 19.7	148 23.2*	76 04*			X		X	BOTT		
ALASKAN SHELF	PB2	70 30.0	148 20.0	76 04			X		X	BOTT		
ALASKAN SHELF	PB3	70 26.0	148 27.5	76 04			X		X	BOTT		

* Nominal dates & locations.

BOTTLE/CTD DATA SET NUMBER: 77-0044
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
		70 52.00	149 24.00	77 03 10			X		X	CTD		
ALASKAN SHELF		70 55.00	150 7.00	77 03 09			X		X	CTD		
		70 58.00	149 21.00	77 03 10			X		X	CTD		
ALASKAN SHELF		70 59.00	150 5.00	77 03 10			X		X	CTD		
		71 1.00	149 19.00	77 03 10			X		X	CTD		
ALASKAN SHELF		71 4.00	150 3.00	77 03 10			X		X	CTD		

	71	6.00	149	20.00	77	03	11			X		X	CTD
ALASKAN SHELF	71	8.00	150	1.00	77	03	10			X		X	CTD
	71	12.00	149	14.00	77	03	11			X		X	CTD
ALASKAN SHELF	71	13.00	152	17.00	77	03	05			X		X	CTD
	71	14.00	149	59.00	77	03	10			X		X	CTD
	71	16.00	149	12.00	77	03	11			X		X	CTD
	71	17.00	152	11.00	77	03	05			X		X	CTD
	71	22.00	152	6.00	77	03	05			X		X	CTD
ALASKAN SHELF	71	22.00	152	57.00	77	03	04			X		X	CTD
	71	25.00	151	54.00	77	03	07			X		X	CTD
	71	26.00	151	59.00	77	03	11			X		X	CTD
ALASKAN SHELF	71	26.00	152	52.00	77	03	04			X		X	CTD
ALASKAN SHELF	71	30.00	152	43.00	77	03	05			X		X	CTD
	71	31.00	151	53.00	77	03	11			X		X	CTD
ALASKAN SHELF	71	34.00	152	38.00	77	03	05			X		X	CTD
	71	35.00	151	44.00	77	03	11			X		X	CTD
ALASKAN SHELF	71	39.00	152	30.00	77	03	05			X		X	CTD

BOTTLE/CTD DATA SET NUMBER: 77-0046
YEAR:1977 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OFF BARROW	A2	70	30.00	161	42.00*	77	04	13	15*	20		X		X	CTD		
OFF BARROW	A3	70	44.00	161	47.00	77	04	13	16	37		X		X	CTD		
OFF BARROW	B1	70	51.00	158	3.00	77	04	09	10	18		X		X	CTD		
OFF BARROW	B1	70	51.00	158	3.00	77	04	13	10	6		X		X	CTD		
OFF BARROW	B2	70	56.00	158	28.00	77	04	09	11	23		X		X	CTD		
OFF BARROW	B2	70	56.00	158	28.00	77	04	13	10	16		X		X	CTD		
OFF BARROW	B3	71	0.00	158	29.00	77	04	09	11	27		X		X	CTD		
OFF BARROW	B3	71	0.00	158	29.00	77	04	13	11	17		X		X	CTD		
OFF BARROW	B4	71	5.00	158	40.00	77	04	09	12	27		X		X	CTD		
OFF BARROW	B4	71	5.00	158	40.00	77	04	10	11	43		X		X	CTD		
OFF BARROW	B4	71	5.00	158	40.00	77	04	13	12	59		X		X	CTD		
OFF BARROW	B5	71	11.00	158	43.00	77	04	10	12	53		X		X	CTD		
OFF BARROW	B5	71	11.00	158	43.00	77	04	13	13	94		X		X	CTD		
OFF BARROW	B6	71	18.00	158	56.00	77	04	10	12	118		X		X	CTD		
OFF BARROW	B6	71	18.00	158	56.00	77	04	13	14	52		X		X	CTD		
OFF BARROW	C1	71	19.00	156	46.00	77	04	10	14	40		X		X	CTD		
OFF BARROW	C2	71	25.00	156	51.00	77	04	10	14	94		X		X	CTD		
OFF BARROW	C3	71	30.00	156	59.00	77	04	10	15	140		X		X	CTD		
OFF BARROW	C4	71	36.00	157	7.00	77	04	10	15	132		X		X	CTD		
OFF BARROW	C5	71	40.00	157	13.00	77	04	10	16	86		X		X	CTD		
OFF BARROW	C6	71	48.00	157	32.00	77	04	10	17	63		X		X	CTD		
OFF BARROW	D2	71	39.00	154	58.00	77	04	15	14	52		X		X	CTD		
OFF BARROW	D4	71	52.00	157	7.00	77	04	15	16	94		X		X	CTD		

*Estimated locations; local time.

BOTTLE/CTD DATA SET NUMBER: 77-0047
YEAR:1977 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OFF BARROW	B1	70	51.00	158	3.00*	77	06	16	11*	12		X		X	CTD		
OFF BARROW	B2	70	56.00	158	28.00	77	06	16	11	17		X		X	CTD		
OFF BARROW	B3	71	0.00	158	29.00	77	06	16	11	22		X		X	CTD		
OFF BARROW	B4	71	5.00	158	40.00	77	06	16	11	48		X		X	CTD		
OFF BARROW	B5	71	11.00	158	43.00	77	06	16	12	98		X		X	CTD		
OFF BARROW	B6	71	18.00	158	56.00	77	06	16	12	63		X		X	CTD		
OFF BARROW	C1	71	20.00	156	54.00	77	06	16	09	49		X		X	CTD		
OFF BARROW	C2	71	23.00	157	1.00	77	06	16	08	107		X		X	CTD		
OFF BARROW	C3	71	29.00	157	16.00	77	06	16	07	139		X		X	CTD		
OFF BARROW	C4	71	32.00	157	21.00	77	06	16	07	90		X		X	CTD		
OFF BARROW	C5	71	37.00	157	23.00	77	06	16	08	67		X		X	CTD		
OFF BARROW	C6	71	44.00	157	38.00	77	06	16	08	65		X		X	CTD		
OFF BARROW	E1	71	29.00	155	36.00	77	06	09	10	21		X		X	CTD		

OFF BARROW	E2	71	29.00	155	13.00	77	06	09	11	19		X	X	CTD
OFF BARROW	E3	71	28.00	154	41.00	77	06	09	11	30		X	X	CTD
OFF BARROW	E4	71	26.00	154	14.00	77	06	09	12	36		X	X	CTD
OFF BARROW	E5	71	27.00	156	24.00	77	06	09	13	65		X	X	CTD
OFF BARROW	E6	72	4.00	154	53.00	77	06	10	15	246		X	X	CTD
OFF BARROW	E7	71	56.00	155	5.00	77	06	10	16	239		X	X	CTD
OFF BARROW	E8	71	34.00	155	32.00	77	06	13	14	174		X	X	CTD
OFF BARROW	E9	71	28.00	156	17.00	77	06	13	14	30		X	X	CTD
OFF BARROW	A1D	70	26.00	161	20.00	77	06	17	08	17		X	X	CTD
OFF BARROW	A1U	70	26.00	161	20.00	77	06	17	08	14		X	X	CTD
OFF BARROW	A2D	70	33.00	161	29.00	77	06	17	09	24		X	X	CTD
OFF BARROW	A2U	70	33.00	161	29.00	77	06	17	09	28		X	X	CTD
OFF BARROW	E10	71	26.00	156	38.00	77	06	13	14	81		X	X	CTD
OFF BARROW	E11	71	20.00	156	49.00	77	06	13	15	56		X	X	CTD
OFF BARROW	E12	71	38.00	155	41.00	77	06	27	16	207		X	X	CTD

*Estimated locations; local time.

BOTTLE/CTD DATA SET NUMBER: 77-0048
YEAR:1977 VESSEL/AGENCY: APL,HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OFF BARROW	B2	71	33.00	155	39.00*	77	07	14	13*	168		X		X	CTD		
OFF BARROW	B3	71	37.00	155	11.00	77	07	14	13	120		X		X	CTD		
OFF BARROW	B4	71	39.00	155	3.00	77	07	14	12	129		X		X	CTD		
OFF BARROW	B5	72	1.00	154	40.00	77	07	16	16	148		X		X	CTD		
OFF BARROW	B6	72	8.00	154	18.00	77	07	16	14	216		X		X	CTD		
OFF BARROW	C3	71	27.00	156	49.00	77	07	17	18	118		X		X	CTD		
OFF BARROW	C5	71	40.00	157	9.00	77	07	17	18	68		X		X	CTD		
OFF BARROW	C6	71	48.00	157	24.00	77	07	17	17	71		X		X	CTD		
OFF BARROW	521	71	29.00	156	0.00	77	07	13	12	32		X		X	CTD		

*Estimated locations; local time.

BOTTLE/CTD DATA SET NUMBER: 77-0049
YEAR:1977 VESSEL/AGENCY: BURTON ISLAND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	056	71	5.80	159	23.00	77	07	30	09		54	X		X	APL		
NE CHUKCHI	057	71	10.80	159	26.50	77	07	30	10		47	X		X	APL		
NE CHUKCHI	058	71	15.20	159	31.00	77	07	30	11		49	X		X	APL		
NE CHUKCHI	059	71	12.20	159	12.00	77	07	30	13		48	X		X	APL		
NE CHUKCHI	060	71	21.80	159	19.30	77	07	30	14		47	X		X	APL		
NE CHUKCHI	061	71	26.50	159	20.10	77	07	30	15		50	X		X	APL		
NE CHUKCHI	062	71	43.00	159	51.00	77	07	30	17		49	X		X	APL		
NE CHUKCHI	063	71	43.00	159	25.00	77	07	30	18		50	X		X	APL		
NE CHUKCHI	064	71	43.00	158	48.00	77	07	30	21		54	X		X	APL		
NE CHUKCHI	072	71	38.00	158	48.00	77	07	30	23		54	X		X	APL		
NE CHUKCHI	073	71	33.60	158	48.20	77	07	31	00		54	X		X	APL		
NE CHUKCHI	074	71	30.00	158	28.00	77	07	31	02		58	X		X	APL		
NE CHUKCHI	075	71	35.00	158	28.00	77	07	31	03		57	X		X	APL		
NE CHUKCHI	076	71	40.00	158	18.00	77	07	31	04		55	X		X	APL		
NE CHUKCHI	077	71	45.00	158	18.00	77	07	31	06		59	X		X	APL		
NE CHUKCHI	078	71	53.00	158	16.50	77	07	31	07		55	X		X	APL		
NE CHUKCHI	079	71	52.00	157	56.00	77	07	31	10		61	X		X	APL		
NE CHUKCHI	080	71	46.00	157	57.00	77	07	31	11		62	X		X	APL		
NE CHUKCHI	081	71	39.00	158	0.00	77	07	31	12		65	X		X	APL		
NE CHUKCHI	082	71	33.00	158	1.00	77	07	31	13		64	X		X	APL		
NE CHUKCHI	083	71	28.00	158	3.00	77	07	31	14		112	X		X	APL		
NE CHUKCHI	084	71	22.50	158	6.00	77	07	31	15		99	X		X	APL		
NE CHUKCHI	085	71	23.10	157	32.40	77	07	31	17		117	X		X	APL		
NE CHUKCHI	086	71	27.20	157	33.50	77	07	31	18		99	X		X	APL		
NE CHUKCHI	087	71	31.50	157	32.50	77	07	31	19		72	X		X	APL		
NE CHUKCHI	088	71	35.00	157	29.00	77	07	31	23		75	X		X	APL		
NE CHUKCHI	096	71	29.00	157	25.00	77	08	01	03		107	X		X	APL		
NE CHUKCHI	098	71	36.80	157	24.00	77	08	01	07		64	X		X	APL		
NE CHUKCHI	099	71	42.00	157	24.80	77	08	01	08		63	X		X	APL		

NE CHUKCHI	100	71	47.00	157	24.50	77	08	01	09	66	X		X	APL
NE CHUKCHI	101	71	53.00	157	24.00	77	08	01	10	72	X		X	APL
NE CHUKCHI	102	71	45.00	157	50.00	77	08	01	12	62	X		X	APL
NE CHUKCHI	103	71	45.00	158	18.00	77	08	01	13	56	X		X	APL
NE CHUKCHI	104	71	45.00	158	49.00	77	08	01	16	54	X		X	APL
NE CHUKCHI	105	71	25.00	159	1.00	77	08	01	17	54	X		X	APL
NE CHUKCHI	106	71	21.00	158	53.00	77	08	01	19	54	X		X	APL
NE CHUKCHI	107	71	24.50	158	21.00	77	08	01	21	114	X		X	APL
NE CHUKCHI	108	71	26.80	157	30.00	77	08	01	23	108	X		X	APL
NE CHUKCHI	109	71	23.90	158	3.00	77	08	02	06	96	X		X	APL
NE CHUKCHI	110	71	28.50	158	0.00	77	08	02	07	72	X		X	APL
NE CHUKCHI	111	71	35.00	158	0.00	77	08	02	08	63	X		X	APL
NE CHUKCHI	112	71	41.50	158	8.80	77	08	02	10	63	X		X	APL
NE CHUKCHI	113	71	44.00	158	2.00	77	08	02	11	60	X		X	APL
NE CHUKCHI	114	71	49.40	158	0.50	77	08	02	12	63	X		X	APL
NE CHUKCHI	115	71	55.90	157	57.00	77	08	02	13	70	X		X	APL
NE CHUKCHI	116	71	50.00	158	48.00	77	08	02	16	55	X		X	APL
NE CHUKCHI	117	71	35.00	159	0.00	77	08	02	21	53	X		X	APL
NE CHUKCHI	118	71	35.00	158	44.00	77	08	02	22	54	X		X	APL
NE CHUKCHI	119	71	35.00	158	29.50	77	08	02	23	58	X		X	APL
NE CHUKCHI	120	71	35.00	158	11.50	77	08	03	00	62	X		X	APL
NE CHUKCHI	121	71	37.40	157	54.90	77	08	03	01	63	X		X	APL
NE CHUKCHI	122	71	35.10	157	38.20	77	08	03	01	63	X		X	APL
NE CHUKCHI	123	71	35.00	157	19.60	77	08	03	02	73	X		X	APL
NE CHUKCHI	124	71	22.30	158	7.10	77	08	03	05	90	X		X	APL
NE CHUKCHI	125	71	11.50	159	6.50	77	08	03	09	91	X		X	APL
NE CHUKCHI	126	71	10.80	158	54.00	77	08	03	11	98	X		X	APL
NE CHUKCHI	127	71	1.00	158	57.00	77	08	03	12	35	X		X	APL
NE CHUKCHI	128	70	57.00	158	53.50	77	08	03	14	19	X		X	APL
NE CHUKCHI	129	71	6.00	158	59.00	77	08	03	15	63	X		X	APL
NE CHUKCHI	130	70	52.00	159	40.00	77	08	03	18	31	X		X	APL
NE CHUKCHI	146	70	54.00	159	58.00	77	08	04	23	54	X		X	APL
NE CHUKCHI	147	71	16.00	156	52.00	77	08	05	05	33	X		X	APL
NE CHUKCHI	148	71	22.50	157	4.20	77	08	05	06	104	X		X	APL
NE CHUKCHI	149	71	24.80	157	12.00	77	08	05	07	143	X		X	APL
NE CHUKCHI	150	71	29.50	157	22.00	77	08	05	09	106	X		X	APL
NE CHUKCHI	151	71	28.00	156	30.00	77	08	05	11	139	X		X	APL
NE CHUKCHI	152	71	34.00	156	30.00	77	08	05	12	153	X		X	APL
NE CHUKCHI	153	71	39.00	156	28.50	77	08	05	14	130	X		X	APL
NE CHUKCHI	154	71	44.00	156	26.50	77	08	05	16	90	X		X	APL
NE CHUKCHI	155	71	40.00	156	23.00	77	08	05	16	108	X		X	APL
NE CHUKCHI	156	71	40.00	156	46.90	77	08	05	17	91	X		X	APL
NE CHUKCHI	157	71	40.00	157	10.00	77	08	05	18	66	X		X	APL
NE CHUKCHI	065H	71	30.00	159	0.00	77	07	30			X		X	APL
NE CHUKCHI	066H	71	33.30	158	57.00	77	07	30			X		X	APL
NE CHUKCHI	089H	71	25.00	157	54.00	77	08	01	01		X		X	APL
NE CHUKCHI	090H	71	19.90	158	21.00	77	08	01	01		X		X	APL
NE CHUKCHI	091H	71	14.50	158	47.00	77	08	01	01		X		X	APL
NE CHUKCHI	092H	71	24.40	158	47.50	77	08	01	01		X		X	APL
NE CHUKCHI	093H	71	29.50	158	20.10	77	08	01	02		X		X	APL
NE CHUKCHI	094H	71	34.80	157	53.00	77	08	01	02		X		X	APL
NE CHUKCHI	095H	71	39.80	157	25.50	77	08	01	02		X		X	APL

BOTTLE/CTD DATA SET NUMBER: 77-0050
YEAR:1977 VESSEL/AGENCY: APL,ICE CAMP

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OFF BARROW	519	71	29.00	155	57.00*	77	07	13	10*	18		X		X	CTD		
OFF BARROW	521	71	29.00	156	0.00	77	07	13	12	32		X		X	CTD		
OFF BARROW	523	71	29.00	156	2.00	77	07	13	16	68		X		X	CTD		
OFF BARROW	525	71	29.00	156	3.00	77	07	13	17	94		X		X	CTD		
OFF BARROW	527	71	30.00	156	7.00	77	07	13	22	142		X		X	CTD		
OFF BARROW	529	71	31.00	156	16.00	77	07	14	08	171		X		X	CTD		
OFF BARROW	531	71	30.00	156	20.00	77	07	14	15	166		X		X	CTD		
OFF BARROW	533	71	30.00	156	27.00	77	07	14	22	163		X		X	CTD		
OFF BARROW	535	71	30.00	156	39.00	77	07	15	07	161		X		X	CTD		
OFF BARROW	537	71	30.00	156	41.00	77	07	15	12	160		X		X	CTD		
OFF BARROW	539	71	30.00	156	43.00	77	07	15	12	160		X		X	CTD		
OFF BARROW	541	71	30.00	156	47.00	77	07	15	18	158		X		X	CTD		
OFF BARROW	543	71	30.00	156	48.00	77	07	15	22	155		X		X	CTD		
OFF BARROW	545	71	30.00	156	59.00	77	07	16	08	143		X		X	CTD		
OFF BARROW	547	71	30.00	157	6.00	77	07	16	14	131		X		X	CTD		
OFF BARROW	549	71	30.00	157	10.00	77	07	16	21	118		X		X	CTD		

OFF BARROW	551	71	31.00	157	16.00	77	07	17	06	111	X	X	CTD
OFF BARROW	553	71	33.00	157	20.00	77	07	17	14	104	X	X	CTD
OFF BARROW	555	71	33.00	157	22.00	77	07	17	20	94	X	X	CTD
OFF BARROW	557	71	34.00	157	26.00	77	07	18	07	85	X	X	CTD
OFF BARROW	559	71	35.00	157	30.00	77	07	18	14	91	X	X	CTD
OFF BARROW	561	71	35.00	157	33.00	77	07	18	19	94	X	X	CTD
OFF BARROW	563	71	36.00	157	39.00	77	07	19	07	74	X	X	CTD
OFF BARROW	565	71	37.00	157	43.00	77	07	19	13	67	X	X	CTD
OFF BARROW	567	71	37.00	157	45.00	77	07	19	16	63	X	X	CTD

* Estimated locations; times local.

BOTTLE/CTD DATA SET NUMBER: 77-0051
YEAR:1977 VESSEL/AGENCY: TEXAS A&M UNIVERSITY

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY		70	19.00	148	19.00*	77	08					X		X	RS5		
SIMPSON LAGOON		70	20.80	148	22.00	77	08	15		0.3		X		X	RS5		
PRUDHOE BAY		70	23.20	148	31.00	77	08					X		X	RS5		
SIMPSON LAGOON		70	23.50	148	32.00	77	08	15		0.3		X		X	RS5		
PRUDHOE BAY		70	24.00	148	31.70	77	08					X		X	RS5		
PRUDHOE BAY		70	24.00	148	33.00	77	08					X		X	RS5		
PRUDHOE BAY		70	24.00	148	34.20	77	08					X		X	RS5		
SIMPSON LAGOON		70	24.00	148	45.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	25.00	148	38.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	26.70	148	45.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	27.00	149	1.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	28.30	148	51.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	29.00	149	9.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	29.70	149	4.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	30.00	149	20.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	30.00	149	40.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	30.50	149	52.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	31.00	149	28.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	31.50	149	12.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	31.50	150	8.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	31.80	149	16.50	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	32.30	149	20.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	32.50	149	28.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	32.50	149	33.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	33.00	149	45.00	77	08	15		0.3		X		X	RS5		
SIMPSON LAGOON		70	33.50	149	52.00	77	08	15		0.3		X		X	RS5		

* Estimated locations.

BOTTLE/CTD DATA SET NUMBER: 77-0052
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF ALASKA, ALUMIAK

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON	11C	70	24.00	148	32.00*	77	08	13							BOTT		
SIMPSON LAGOON	105F	70	33.10	149	46.20	77	08	08							BOTT		
SIMPSON LAGOON	118B	70	27.10	150	4.80	77	08	08	12*						BOTT		
SIMPSON LAGOON	118D	70	28.40	150	2.80	77	08	08	13						BOTT		
SIMPSON LAGOON	118F	70	29.00	150	1.70	77	08	08	14						BOTT		
SIMPSON LAGOON	118H	70	31.10	150	0.40	77	08	08	15						BOTT		

* Estimated locations; local time.

BOTTLE/CTD DATA SET NUMBER: 77-0054
YEAR:1977 VESSEL/AGENCY: ALASKA FISH & GAME

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT MO HR
SIMPSON LAGOON		70 29.00	149 35.00	77 07 02			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 07 03			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 07 29			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 07 30			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 07 31			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 01			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 02			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 03			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 04			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 05			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 06			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 07			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 08			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 12			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 13			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 14			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 15			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 16			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 17			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 18			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 20			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 21			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 22			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 22			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 23			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 24			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 26			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 27			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 28			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 08 29			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 01			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 02			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 03			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 04			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 05			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 06			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 07			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 08			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 09			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 10			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 14			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 16			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 17			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 18			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 19			X		X	CTD	
SIMPSON LAGOON		70 29.00	149 35.00	77 09 21			X		X	CTD	
ALASKAN SHELF		70 30.00	149 8.00	77 07 13			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 06			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 14			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 14			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 18			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 23			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 25			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 07 30			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 02			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 03			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 04			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 05			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 05			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 06			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 07			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 13			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 14			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 15			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 16			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 17			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 18			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 20			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 21			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 22			X		X	CTD	
SIMPSON LAGOON		70 30.00	149 35.00	77 08 23			X		X	CTD	

SIMPSON LAGOON	70	30.00	149	35.00	77	08	24	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	08	26	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	08	27	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	08	28	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	08	29	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	08	29	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	01	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	01	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	01	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	03	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	04	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	05	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	06	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	06	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	07	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	08	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	09	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	09	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	10	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	14	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	16	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	17	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	17	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	17	X	X CTD
SIMPSON LAGOON	70	30.00	149	35.00	77	09	19	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	07	12	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	07	14	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	07	23	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	07	25	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	08	07	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	08	17	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	08	18	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	08	29	X	X CTD
SIMPSON LAGOON	70	31.00	149	35.00	77	09	09	X	X CTD
SIMPSON LAGOON	70	32.00	149	35.00	77	09	08	X	X CTD
SIMPSON LAGOON	70	32.00	149	35.00	77	09	09	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	04	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	08	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	17	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	17	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	18	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	18	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	20	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	20	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	21	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	22	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	23	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	24	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	25	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	27	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	28	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	08	29	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	01	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	03	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	04	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	05	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	06	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	06	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	08	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	09	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	10	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	10	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	10	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	13	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	17	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	17	X	X CTD
SIMPSON LAGOON	70	33.00	149	34.00	77	09	21	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	06	16	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	06	21	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	06	30	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	02	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	04	X	X CTD
SIMPSON LAGOON	70	33.00	149	35.00	77	07	07	X	X CTD

SIMPSON	LAGOON	70	33.00	149	35.00	77	07	07	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	07	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	08	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	08	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	09	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	09	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	10	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	10	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	11	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	11	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	11	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	11	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	12	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	12	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	13	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	14	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	14	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	15	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	16	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	16	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	17	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	17	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	17	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	18	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	18	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	18	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	18	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	19	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	19	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	19	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	19	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	20	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	20	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	20	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	21	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	21	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	21	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	22	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	22	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	22	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	24	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	24	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	25	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	25	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	27	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	27	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	28	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	29	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	07	30	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	01	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	02	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	03	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	03	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	03	X	X CTD
SIMPSON	LAGOON	70	33.00	149	35.00	77	08	03	X	X CTD
ALASKAN	SHELF	70	34.00	149	34.00	77	06	20	X	X CTD
ALASKAN	SHELF	70	34.00	149	34.00	77	07	24	X	X CTD
ALASKAN	SHELF	70	34.00	149	34.00	77	09	06	X	X CTD
ALASKAN	SHELF	70	34.00	149	34.00	77	09	17	X	X CTD
ALASKAN	SHELF	70	34.00	149	35.00	77	07	02	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	05	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	05	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	12	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	16	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	24	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	24	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	07	26	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	03	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	04	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	05	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	17	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	17	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	18	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	08	30	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	09	02	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	09	06	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	09	06	X	X CTD
ALASKAN	SHELF	70	34.00	149	38.00	77	09	08	X	X CTD
ALASKAN	SHELF	70	34.00	149	39.00	77	06	29	X	X CTD
ALASKAN	SHELF	70	34.00	149	43.00	77	07	02	X	X CTD

BOTTLE/CTD DATA SET NUMBER: 77-0063
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
DEASE INLET	DE1	71	13.00	155	28.00	77	03	30									
DEASE INLET	DE2	71	14.00	155	49.00	77	03	31									
DEASE INLET	DE3	71	9.00	155	24.00	77	03	31									
DEASE INLET	DE4	71	2.00	155	25.00	77	03	31									
DEASE INLET	DE5	70	53.00	155	42.00	77	03	31									
ELSON LAGOON	EL1	71	21.50	156	21.00	77	05	23									
ELSON LAGOON	EL2	71	21.10	156	24.00	77	05	23									
ELSON LAGOON	EL3	71	21.60	156	28.00	77	05	23									

BOTTLE/CTD DATA SET NUMBER: 77-0069
YEAR:1977 VESSEL/AGENCY: GLACIER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	4	71	25.0	164	00.0	77	08	04		45	45	X		X	BOTT		
ALASKAN SHELF	5	71	12.0	158	22.0	77	08	06		100	107	X		X	BOTT		
ALASKAN SHELF	6	71	25.0	156	56.0	77	08	06		100	112	X		X	BOTT		
ALASKAN SHELF	7	71	46.0	155	51.0	77	08	07		100	123	X		X	BOTT		
ALASKAN SHELF	8	71	57.0	154	33.0	77	08	09		175	183	X		X	BOTT		
ALASKAN SLOPE	9	72	24.0	154	37.0	77	08	10		100	2196	X		X	BOTT		
ALASKAN SHELF	10	71	35.0	153	29.0	77	08	10		45	51	X		X	BOTT		
ALASKAN SHELF	11	71	18.0	152	43.0	77	08	11		50	55	X		X	BOTT		
ALASKAN SHELF	12	71	10.0	151	30.0	77	08	12		20	24	X		X	BOTT		
ALASKAN SHELF	13	71	05.0	150	23.0	77	08	13		25	29	X		X	BOTT		
ALASKAN SHELF	14	71	10.0	150	04.0	77	08	14		40	44	X		X	BOTT		
ALASKAN SHELF	15	70	38.0	148	28.0	77	08	15		18	22	X		X	BOTT		
ALASKAN SHELF	16	70	42.0	147	59.0	77	08	17		25	31	X		X	BOTT		
ALASKAN SHELF	16A	70	40.0	147	48.0	77	08	17		30	32	X		X	BOTT		
ALASKAN SHELF	17	70	33.0	147	24.0	77	08	18		25	27	X		X	BOTT		
ALASKAN SHELF	18	70	25.0	146	41.0	77	08	18		25	31	X		X	BOTT		
CANADA BASIN	19	70	32.0	146	30.0	77	08	19		1000	3660	X		X	BOTT		
CANADA BASIN	20	72	46.0	146	23.0	77	08	21		100	3568	X		X	BOTT		
CANADA BASIN	21	72	47.0	146	34.0	77	08	22		100	3568	X		X	BOTT		
CANADA BASIN	22	72	57.0	143	20.0	77	08	23		100	3292	X		X	BOTT		
CANADA BASIN	23	72	54.0	142	08.0	77	08	23		3400	3521	X		X	BOTT		
ALASKAN SHELF	24	70	45.0	141	28.0	77	08	25		100	1189	X		X	BOTT		
ALASKAN SHELF	25	70	32.0	141	32.0	77	08	25		100	406	X		X	BOTT		
ALASKAN SHELF	26	69	49.0	141	31.0	77	08	26		25	28	X		X	BOTT		
ALASKAN SHELF	27	70	04.0	142	14.0	77	08	26		30	35	X		X	BOTT		
ALASKAN SHELF	28	70	19.0	142	32.0	77	08	27		45	49	X		X	BOTT		
ALASKAN SHELF	29	70	21.0	143	29.0	77	08	28		35	38	X		X	BOTT		
ALASKAN SHELF	30	70	14.0	144	28.0	77	08	28		25	28	X		X	BOTT		
ALASKAN SHELF	31	70	10.0	145	32.0	77	08	29		18	20	X		X	BOTT		
ALASKAN SHELF	32	70	39.0	145	34.0	77	08	30		45	51	X		X	BOTT		
ALASKAN SHELF	33	70	23.0	146	26.0	77	08	30		25	28	X		X	BOTT		
ALASKAN SHELF	34	71	46.0	147	02.0	77	08	31		45	54	X		X	BOTT		
ALASKAN SHELF	35	70	32.0	147	35.0	77	09	01		15	18	X		X	BOTT		
ALASKAN SHELF	36	70	36.0	148	26.0	77	09	01		18	22	X		X	BOTT		
ALASKAN SHELF	37	70	45.0	149	03.0	77	09	02		18	27	X		X	BOTT		
ALASKAN SHELF	38	71	58.0	155	43.0	77	09	04		100	150	X		X	BOTT		
ALASKAN SHELF	39	71	30.0	155	12.0	77	09	04		21	26	X		X	BOTT		
ALASKAN SHELF	40	71	30.0	155	13.0	77	09	04		21	26	X		X	BOTT		
ALASKAN SHELF	41	71	32.0	156	30.0	77	09	05		100	160	X		X	BOTT		

BOTTLE/CTD DATA SET NUMBER: 78-0034
YEAR:1978 VESSEL/AGENCY: US AIRCRAFT

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON		70 23.80	148 34.00*	78 07 28								
SIMPSON LAGOON		70 23.80	148 34.00	78 08 05								
SIMPSON LAGOON		70 25.50	148 39.00	78 07 28								
SIMPSON LAGOON		70 25.50	148 39.00	78 08 05								
SIMPSON LAGOON		70 26.00	148 45.00	78 07 28								
SIMPSON LAGOON		70 26.00	148 45.00	78 08 05								
SIMPSON LAGOON		70 26.70	148 52.00	78 08 05								
SIMPSON LAGOON		70 27.00	149 1.00	78 07 28								
SIMPSON LAGOON		70 27.00	149 1.00	78 08 05								
SIMPSON LAGOON		70 29.00	149 9.00	78 07 28								
SIMPSON LAGOON		70 29.00	149 9.00	78 08 05								
SIMPSON LAGOON		70 30.00	149 7.00	78 07 28								
SIMPSON LAGOON		70 30.00	149 7.00	78 08 05								
SIMPSON LAGOON		70 30.50	149 38.50	78 07 28								
SIMPSON LAGOON		70 30.50	149 38.50	78 08 05								
SIMPSON LAGOON		70 31.00	149 27.00	78 07 28								
SIMPSON LAGOON		70 31.00	149 27.00	78 08 05								
SIMPSON LAGOON		70 31.00	149 51.50	78 07 28								
SIMPSON LAGOON		70 31.00	149 51.50	78 08 05								
SIMPSON LAGOON		70 31.40	149 23.50	78 08 05								
SIMPSON LAGOON		70 31.80	149 36.00	78 08 05								
SIMPSON LAGOON		70 32.20	149 22.00	78 07 28								
SIMPSON LAGOON		70 32.20	149 22.00	78 08 05								
SIMPSON LAGOON		70 32.50	149 51.50	78 07 28								
SIMPSON LAGOON		70 32.50	149 51.50	78 08 05								
SIMPSON LAGOON		70 33.00	149 35.00	78 07 28								
SIMPSON LAGOON		70 33.00	149 35.00	78 08 05								
SIMPSON LAGOON		70 33.50	149 51.50	78 07 28								
SIMPSON LAGOON		70 33.50	149 51.50	78 08 05								

* Locations estimated.

BOTTLE/CTD DATA SET NUMBER: 78-0043
YEAR:1978 VESSEL/AGENCY: GLACIER

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	061	71 56.50	154 30.50	78 07 23 08		201	X		X	APL		
NE CHUKCHI	062	71 57.20	154 13.00	78 07 23 09		205	X		X	APL		
NE CHUKCHI	064	71 47.50	154 14.00	78 07 23 11		119	X		X	APL		
NE CHUKCHI	066	71 34.00	156 26.00	78 07 24 03		150	X		X	APL		
NE CHUKCHI	067	71 37.20	156 22.00	78 07 24 05		160	X		X	APL		
NE CHUKCHI	068	71 37.50	156 22.00	78 07 24 06		101	X		X	APL		
NE CHUKCHI	069	71 32.50	156 18.00	78 07 24 07		157	X		X	APL		
NE CHUKCHI	070	71 30.80	157 0.00	78 07 24 09		152	X		X	APL		
NE CHUKCHI	071	71 31.00	157 32.00	78 07 24 11		82	X		X	APL		
NE CHUKCHI	072	71 36.40	157 38.00	78 07 24 13		62	X		X	APL		
NE CHUKCHI	073	71 30.50	157 50.00	78 07 24 15		122	X		X	APL		
NE CHUKCHI	074	71 23.60	156 56.00	78 07 24 17		110	X		X	APL		
NE CHUKCHI	075	71 23.70	156 50.50	78 07 25 07		36	X		X	APL		
NE CHUKCHI	076	71 22.80	157 18.10	78 07 25 08		119	X		X	APL		
NE CHUKCHI	077	71 26.50	157 48.00	78 07 25 10		110	X		X	APL		
NE CHUKCHI	078	71 26.30	157 57.00	78 07 25 11		82	X		X	APL		
NE CHUKCHI	079	71 31.50	158 26.00	78 07 25 13		60	X		X	APL		
NE CHUKCHI	080	71 35.50	158 56.00	78 07 25 14		48	X		X	APL		
NE CHUKCHI	081	71 39.00	159 22.00	78 07 25 16		53	X		X	APL		
NE CHUKCHI	082	71 43.00	159 51.80	78 07 25 18		49	X		X	APL		
NE CHUKCHI	103	70 59.00	159 57.00	78 07 27 13		62	X		X	APL		
NE CHUKCHI	104	71 10.50	159 52.00	78 07 27 15		73	X		X	APL		
NE CHUKCHI	105	71 9.00	159 52.00	78 07 27 16		72	X		X	APL		
NE CHUKCHI	106	71 6.50	159 32.50	78 07 27 18		68	X		X	APL		
NE CHUKCHI	015H	72 13.70	159 43.00	78 07 26 04		98	X		X	APL		
NE CHUKCHI	023H	71 0.80	159 36.00	78 07 27 16		79	X		X	APL		
NE CHUKCHI	059A	71 46.90	154 40.00	78 07 23 06		154	X		X	APL		

NE CHUKCHI	059B	71	46.90	154	40.00	78	07	23	06	154	X		X	APL
NE CHUKCHI	060A	71	54.20	154	28.50	78	07	23	07	202	X		X	APL
NE CHUKCHI	060B	71	54.20	154	28.50	78	07	23	07	202	X		X	APL
NE CHUKCHI	063A	71	52.00	154	16.00	78	07	23	10	200	X		X	APL
NE CHUKCHI	063B	71	52.00	154	16.00	78	07	23	10	200	X		X	APL
NE CHUKCHI	065A	71	28.40	156	27.20	78	07	24	02	050	X		X	APL
NE CHUKCHI	065B	71	28.40	156	27.20	78	07	24	02	050	X		X	APL

BOTTLE/CTD DATA SET NUMBER: 78-0044
YEAR:1978 VESSEL/AGENCY: SUBMARINE PINTADO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
AMUNDSEN BASIN	7	90	0.00		0.00	78	10	10		122			X				
ALPHA RIDGE	8	83	54.00	142	34.00	78	10	11		122			X				
CANADA BASIN	9	75	6.00	13[illegible]	42.00	78	10	19		122			X				

BOTTLE/CTD DATA SET NUMBER: 78-0046
YEAR:1978 VESSEL/AGENCY: ALASKA FISH & GAME ?

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON		70	30.00	149	19.00	78	07	16				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	07	16				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	07	16				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	07	20				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	07	25				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	08	08				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	19.00	78	08	15				X		X	CTD		
SIMPSON LAGOON		70	30.00	149	23.00	78	07	31				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	05	10				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	06	28				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	06	28				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	06	30				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	06	30				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	01				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	01				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	03				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	03				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	08				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	09				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	09				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	09				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	09				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	10				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	10				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	11				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	11				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	13				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	13				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	14				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	14				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	15				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	15				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	17				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	17				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	18				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	18				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	19				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	19				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	20				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	20				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	20				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	21				X		X	CTD		
SIMPSON LAGOON		70	31.00	149	27.00	78	07	21				X		X	CTD		

SIMPSON	LAGOON	70	31.00	149	27.00	78	07	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	25	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	25	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	27	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	27	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	28	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	28	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	29	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	30	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	30	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	07	30	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	03	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	09	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	11	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	11	X	X CTD
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SIMPSON	LAGOON	70	31.00	149	27.00	78	08	15	X	X CTD
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SIMPSON	LAGOON	70	31.00	149	27.00	78	08	15	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	15	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	18	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD

SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	24	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	25	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	25	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	25	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	26	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	27	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	27	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	27	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	28	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	28	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	28	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	28	X	X CTD
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SIMPSON	LAGOON	70	31.00	149	27.00	78	08	31	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	31	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	31	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	08	31	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	01	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	02	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	03	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	03	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	03	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	03	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	04	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	05	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	05	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	05	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	06	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	06	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	06	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	06	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	07	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	08	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	09	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	09	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	09	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	10	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	14	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	14	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	14	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	15	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	16	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	17	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	19	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	20	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	21	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	22	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	23	X	X CTD
SIMPSON	LAGOON	70	31.00	149	27.00	78	09	23	X	X CTD

SIMPSON LAGOON		70	31.00	149	27.00	78	09	24		X	X	CTD
SIMPSON LAGOON		70	31.00	149	27.00	78	09	24		X	X	CTD
SIMPSON LAGOON		70	32.00	149	22.00	78	06	26		X	X	CTD
SIMPSON LAGOON		70	32.00	149	22.00	78	06	28		X	X	CTD
SIMPSON LAGOON		70	32.00	149	22.00	78	06	30		X	X	CTD
SIMPSON LAGOON		70	32.00	149	22.00	78	07	08		X	X	CTD

BOTTLE/CTD DATA SET NUMBER: 78-0047
YEAR:1978 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SIMPSON LAGOON	39	70	35.00	149	28.00	78	06	21									
SIMPSON LAGOON	40	70	35.00	149	28.00	78	07	20									
SIMPSON LAGOON	41	70	35.00	149	28.00	78	07	29									
SIMPSON LAGOON	43	70	33.00	149	43.00	78	06	21									
SIMPSON LAGOON	44	70	33.00	149	43.00	78	07	20									
SIMPSON LAGOON	46	70	32.00	149	52.00	78	04	04									
SIMPSON LAGOON	47	70	32.00	149	52.00	78	05	25									
SIMPSON LAGOON	48	70	32.00	149	52.00	78	06	21									
SIMPSON LAGOON	49	70	32.00	149	52.00	78	07	07									
SIMPSON LAGOON	50	70	32.00	149	52.00	78	07	20									
SIMPSON LAGOON	51	70	35.00	149	53.00	78	06	21									
SIMPSON LAGOON	52	70	35.00	149	53.00	78	06	25									
SIMPSON LAGOON	53	70	35.00	149	53.00	78	07	20									
SIMPSON LAGOON	54	70	35.00	149	53.00	78	07	29									
SIMPSON LAGOON	55	70	28.00	150	6.00	78	04	04									
SIMPSON LAGOON	56	70	28.00	150	6.00	78	05	25									
SIMPSON LAGOON	58	70	53.00	150	4.00	78	04	04									
SIMPSON LAGOON	59	70	53.00	150	4.00	78	05	25									
SIMPSON LAGOON	61	70	28.00	150	29.00	78	04	05									
SIMPSON LAGOON	63	70	34.00	150	31.00	78	04	04									
SIMPSON LAGOON	65	70	35.00	150	55.00	78	04	05									
SIMPSON LAGOON	66	70	26.00	150	27.00	78	04	05									
SIMPSON LAGOON	SM10	70	29.00	148	55.00	78	04	04									
SIMPSON LAGOON	SM11	70	29.00	148	55.00	78	05	25									
SIMPSON LAGOON	SM12	70	29.00	148	55.00	78	07	07									
SIMPSON LAGOON	SM13	70	29.00	148	55.00	78	07	20									
SIMPSON LAGOON	SM15	70	30.00	148	56.00	78	04	04									
SIMPSON LAGOON	SM16	70	30.00	148	56.00	78	05	25									
SIMPSON LAGOON	SM17	70	30.00	148	56.00	78	07	20									
SIMPSON LAGOON	SM19	70	30.00	149	10.00	78	04	04									
SIMPSON LAGOON	SM20	70	30.00	149	10.00	78	05	25									
SIMPSON LAGOON	SM21	70	30.00	149	10.00	78	06	21									
SIMPSON LAGOON	SM22	70	30.00	149	10.00	78	07	07									
SIMPSON LAGOON	SM24	70	32.00	149	6.00	78	06	21									
SIMPSON LAGOON	SM25	70	32.00	149	6.00	78	07	07									
SIMPSON LAGOON	SM26	70	32.00	149	6.00	78	07	20									
SIMPSON LAGOON	SM27	70	32.00	149	6.00	78	07	29									
SIMPSON LAGOON	SM29	70	32.00	149	27.00	78	04	04									
SIMPSON LAGOON	SM30	70	32.00	149	27.00	78	05	25									
SIMPSON LAGOON	SM31	70	32.00	149	27.00	78	06	21									
SIMPSON LAGOON	SM32	70	32.00	149	27.00	78	06	25									
SIMPSON LAGOON	SM33	70	32.00	149	27.00	78	06	26									
SIMPSON LAGOON	SM34	70	32.00	149	27.00	78	06	27									
SIMPSON LAGOON	SM35	70	32.00	149	27.00	78	06	28									
SIMPSON LAGOON	SM36	70	32.00	149	27.00	78	07	07									
SIMPSON LAGOON	SM38	70	35.00	149	24.00	78	07	29									

BOTTLE/CTD DATA SET NUMBER: 78-0058
YEAR:1978 VESSEL/AGENCY: NORTHWIND

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	1	71	11.0	150	14.0	78	08	17		45	45	X		X	BOTT		

ALASKAN SHELF	3	70	58.0	149	17.0	78	08	18	35	41	X	X	BOTT
ALASKAN SHELF	4	70	19.8	146	05.0	78	08	19	25	33	X	X	BOTT
ALASKAN SHELF	5	70	36.2	148	20.2	78	08	21	20	22	X	X	BOTT
ALASKAN SHELF	6	70	55.0	148	11.0	78	08	22	35	40	X	X	BOTT
ALASKAN SHELF	7	71	05.9	149	34.0	78	08	23	20	24	X	X	BOTT
ALASKAN SHELF	8	71	03.6	150	52.9	78	08	23	20	23	X	X	BOTT
ALASKAN SHELF	9	71	11.1	151	51.3	78	08	24	20	29	X	X	BOTT
ALASKAN SHELF	10	71	05.0	152	51.0	78	08	24	20	23	X	X	BOTT
ALASKAN SHELF	11	71	19.8	152	47.7	78	08	24	50	55	X	X	BOTT
ALASKAN SHELF	12	71	21.6	152	41.1	78	08	24	90	99	X	X	BOTT
ALASKAN SLOPE	13	71	33.5	150	27.0	78	08	26	1800		X	X	BOTT
ALASKAN SHELF	14	70	36.0	147	38.7	78	08	28	18	27	X	X	BOTT
ALASKAN SHELF	16	70	29.0	147	23.0	78	08	29	21	27	X	X	BOTT
ALASKAN SHELF	17	70	21.9	146	51.7	78	08	30	18	21	X	X	BOTT
ALASKAN SHELF	18	70	34.0	145	51.7	78	08	31	18	20	X	X	BOTT
ALASKAN SHELF	19	70	12.7	143	22.6	78	09	01	18	25	X	X	BOTT
ALASKAN SHELF	20	69	58.5	142	15.0	78	09	02	15	18	X	X	BOTT
ALASKAN SLOPE	21	70	57.8	142	20.8	78	09	03	2400	2560	X	X	BOTT
ALASKAN SHELF	22	69	45.0	141	17.5	78	09	05	15	18	X	X	BOTT
ALASKAN SHELF	23	70	28.0	143	33.0	78	09	06	35	42	X	X	BOTT
ALASKAN SHELF	24	70	28.6	143	42.3	78	09	06	55	62	X	X	BOTT
ALASKAN SHELF	25	70	15.1	143	40.0	78	09	07	25	31	X	X	BOTT
ALASKAN SHELF	26	70	07.7	144	48.4	78	09	08	15	18	X	X	BOTT
ALASKAN SHELF	27	70	17.8	146	30.8	78	09	08	18	22	X	X	BOTT
ALASKAN SHELF	28	70	28.0	147	25.7	78	09	09	21	24	X	X	BOTT
ALASKAN SHELF	29	71	01.0	147	56.6	78	09	09	45	53	X	X	BOTT
ALASKAN SHELF	30	70	44.9	148	34.0	78	09	10	21	25	X	X	BOTT
ALASKAN SHELF	31	70	35.5	148	00.0	78	09	11	18	22	X	X	BOTT
ALASKAN SHELF	32	70	46.6	149	30.4	78	09	12	18	22	X	X	BOTT
ALASKAN SHELF	33	71	12.6	149	38.4	78	09	13	60	67	X	X	BOTT
ALASKAN SHELF	34	70	52.0	150	16.0	78	09	13	22	27	X	X	BOTT
ALASKAN SHELF	35	71	01.0	150	25.0	78	09	14	21	22	X	X	BOTT

BOTTLE/CTD DATA SET NUMBER: 78-0059
YEAR:1978 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO NR
STEFANSSON SOUND		70	19.0	147	34.4	79	05	18		4.	4.5	X			BOTT	
STEFANSSON SOUND		70	19.0	147	34.4	79	05	19		4.	4.5	X			BOTT	
STEFANSSON SOUND		70	19.0	147	34.4	79	05	20		4.	4.5	X			BOTT	

BOTTLE/CTD DATA SET NUMBER: 79-0042
YEAR:1979 VESSEL/AGENCY: SOHIO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO NR
PRUDHOE BAY	TP1	70	27.20	148	14.90	79	04	30		7.5	8.2	X		X	INTO	
PRUDHOE BAY	TP2	70	25.50	148	15.60	79	04	22		5.0	5.5	X		X	INTO	
PRUDHOE BAY	TP6	70	26.10	148	15.40	79	04	17	09*	6.5	6.6	X		X	INTO	
PRUDHOE BAY	TP6	70	26.10	148	15.40	79	04	18	09	6.5	6.6	X		X	INTO	
PRUDHOE BAY	TP6	70	26.10	148	15.40	79	04	20	10	6.5	6.6	X		X	INTO	
PRUDHOE BAY	TP9	70	29.20	148	21.70	79	07	18				X		X	INTO	
PRUDHOE BAY	TP9	70	29.20	148	21.70	79	08	30				X		X	INTO	

*Local time.

BOTTLE/CTD DATA SET NUMBER: 79-0048
YEAR:1979 VESSEL/AGENCY: LGL

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
SIMPSON LAGOON		70 9.50	145 57.00	79 11*		0.5		X	X		
SIMPSON LAGOON		70 30.00	149 9.00	79 11*		0.5		X	X		
SIMPSON LAGOON		70 31.00	149 17.50	79 11*		0.5		X	X		
SIMPSON LAGOON		70 32.00	149 30.00	79 11*		0.5		X	X		
SIMPSON LAGOON		70 32.00	149 45.00	79 11*		0.5		X	X		
SIMPSON LAGOON		70 32.00	149 50.00	79 11*		0.5		X	X		
SIMPSON LAGOON		70 12.00	146 1.00	80 05 02		3.0			X		
SIMPSON LAGOON		70 18.00	147 33.00	80 05 02		4.6			X		
ALASKAN SLOPE		71 49.70	148 22.60	80 05 02				X	X		

*Sometime between Nov. 2-13.

BOTTLE/CTD DATA SET NUMBER: 79-0050
YEAR:1979 VESSEL/AGENCY: LOREX ICE STATION

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
LOMONOSOV RIDGE		86?15.00	089 0.00	79 05 16			X		X	BOTT	
MAKAROV BASIN		88 30.00	152 0.00	79 04 19			X		X	BOTT	
MAKAROV BASIN		88 32.00	147 0.00	79 04 20			X		X	BOTT	
MAKAROV BASIN		88 32.00	152 0.00	79 04 18			X		X	BOTT	
MAKAROV BASIN		88 34.00	143 0.00	79 04 21			X		X	BOTT	
MAKAROV BASIN		88 35.00	152 0.00	79 04 17			X		X	BOTT	
MAKAROV BASIN		88 41.00	140 0.00	79 04 23			X		X	BOTT	
MAKAROV BASIN		88 48.00	140 0.00	79 04 26			X		X	BOTT	
MAKAROV BASIN		88 50.00	139 0.00	79 04 29			X		X	BOTT	
LOMONOSOV RDG		89 4.00	139 0.00	79 05 03			X		X	BOTT	
LOMONOSOV RDG		89 12.00	095 0.00	79 05 20			X		X	BOTT	
LOMONOSOV RDG		89 14.00	093 0.00	79 05 19			X		X	BOTT	
LOMONOSOV RDG		89 15.00	120 0.00	79 05 05			X		X	BOTT	

?As in Ostlund(1982); however expect it is actually 89deg latitude.

BOTTLE/CTD DATA SET NUMBER: 79-0061
YEAR:1979 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
ALASKAN SHELF		70 19.	148 24.	79 07 24	0		X		X		
ALASKAN SHELF		70 20.	148 17.	79 07 24	0		X		X		
ALASKAN SHELF		70 21.	148 15.	79 07 24	0		X		X		
ALASKAN SHELF		70 24.	148 32.	79 07 24	0		X		X		
ALASKAN SHELF		70 32.	149 26.	79 08 04	0		X		X		
ALASKAN SHELF		70 32.	149 37.	79 08 04	0		X		X		
ALASKAN SHELF		70 33.	149 52.	79 08 04	0		X		X		
ALASKAN SHELF		70 34.	149 42.	79 08 04	0		X		X		
ALASKAN SHELF		70 30.	150 23.	79 08 11	0		X		X		
ALASKAN SHELF		70 32.	150 20.	79 08 11	0		X		X		
ALASKAN SHELF		70 33.	150 09.	79 08 11	0		X		X		
ALASKAN SHELF		70 32.	149 59.	79 08 11	0		X		X		
ALASKAN SHELF		70 33.	149 51.	79 08 11	0		X		X		
ALASKAN SHELF		70 32.	149 52.	79 08 11	0		X		X		
ALASKAN SHELF		70 31.	149 53.	79 08 11	0		X		X		
ALASKAN SHELF		70 32.	149 43.	79 08 11	0		X		X		
ALASKAN SHELF		70 34.	149 41.	79 08 11	0		X		X		
ALASKAN SHELF		70 33.	149 32.	79 08 11	0		X		X		
ALASKAN SHELF		70 32.	149 30.	79 08 11	0		X		X		

BOTTLE/CTD DATA SET NUMBER: 80-0037
YEAR:1980 VESSEL/AGENCY: LGL,D.W.HOOD

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
HARRISON BAY		70 31.00	150 20.00	80 08*			X		X	YSI	
HARRISON BAY		70 34.00	150 17.00	80 08			X		X	YSI	
HARRISON BAY		70 34.00	150 18.00	80 08			X		X	YSI	
HARRISON BAY		70 34.00	150 20.00	80 06			X		X	YSI	
HARRISON BAY		70 35.00	149 56.00	80 08			X		X	YSI	
HARRISON BAY		70 35.00	150 1.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	149 40.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	149 53.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 12.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 13.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 16.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 17.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 21.00	80 08			X		X	YSI	
HARRISON BAY		70 36.00	150 37.00	80 08			X		X	YSI	
HARRISON BAY		70 37.00	149 45.00	80 08			X		X	YSI	
HARRISON BAY		70 37.00	150 28.00	80 08			X		X	YSI	
HARRISON BAY		70 37.00	151 7.00	80 08			X		X	YSI	
HARRISON BAY		70 37.00	151 29.00	80 08			X		X	YSI	
HARRISON BAY		70 38.00	149 58.00	80 08			X		X	YSI	
HARRISON BAY		70 38.00	151 32.00	80 08			X		X	YSI	
HARRISON BAY		70 40.00	149 57.00	80 08			X		X	YSI	
HARRISON BAY		70 40.00	150 6.00	80 08			X		X	YSI	
HARRISON BAY		70 40.00	151 26.00	80 08			X		X	YSI	
HARRISON BAY		70 41.00	151 46.00	80 08			X		X	YSI	
HARRISON BAY		70 42.00	150 29.00	80 08			X		X	YSI	
HARRISON BAY		70 42.00	150 38.00	80 08			X		X	YSI	
HARRISON BAY		70 43.00	151 48.00	80 08			X		X	YSI	
HARRISON BAY		70 44.00	150 11.00	80 08			X		X	YSI	
HARRISON BAY		70 44.00	150 44.00	80 08			X		X	YSI	
HARRISON BAY		70 48.00	151 54.00	80 08			X		X	YSI	
HARRISON BAY		70 56.00	152 15.00	80 08			X		X	YSI	

*Dates unknown.

BOTTLE/CTD DATA SET NUMBER: 80-0039
YEAR:1980 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
PRUDHOE BAY	1	70 18.50	148 21.00*	80 08 *			X		X	RC19	
PRUDHOE BAY	2	70 21.00	148 18.00	80 08			X		X	RC19	
PRUDHOE BAY	3	70 21.50	148 22.00	80 08			X		X	RC19	
PRUDHOE BAY	4	70 23.50	148 30.00	80 08			X		X	RC19	
PRUDHOE BAY	5	70 24.00	148 36.00	80 08			X		X	RC19	
SIMPSON LAGOON	6	70 32.00	149 33.00	80 08			X		X	RC19	
SIMPSON LAGOON	7	70 33.00	149 33.00	80 08			X		X	RC19	
SIMPSON LAGOON	8	70 33.50	149 43.00	80 08			X		X	RC19	
SIMPSON LAGOON	9	70 33.50	149 57.00	80 08			X		X	RC19	
SIMPSON LAGOON	10	70 31.00	149 52.00	80 08			X		X	RC19	
SIMPSON LAGOON	11	70 32.50	149 54.00	80 08			X		X	RC19	
SIMPSON LAGOON	12	70 32.50	150 2.00	80 08			X		X	RC19	
HARRISON BAY	13	70 32.50	150 10.00	80 08			X		X	RC19	
HARRISON BAY	14	70 30.50	150 11.00	80 08			X		X	RC19	
HARRISON BAY	15	70 27.50	150 13.00	80 08			X		X	RC19	
PRUDHOE BAY	16	70 22.50	148 30.00	80 08			X		X	RC19	
PRUDHOE BAY	17	70 21.00	148 27.00	80 08			X		X	RC19	
PRUDHOE BAY	18	70 19.00	148 27.00	80 08			X		X	RC19	
PRUDHOE BAY	2A	70 22.00	148 17.00	80 08			X		X	RC19	
PRUDHOE BAY	3A	70 22.00	148 22.00	80 08			X		X	RC19	
PRUDHOE BAY	4A	70 23.50	148 28.00	80 08			X		X	RC19	
PRUDHOE BAY	4B	70 24.00	148 30.00	80 08			X		X	RC19	
PRUDHOE BAY	4C	70 25.00	148 30.00	80 08			X		X	RC19	
SIMPSON LAGOON	7A	70 34.00	149 35.00	80 08			X		X	RC19	
HARRISON BAY	13A	70 33.50	150 10.00	80 08			X		X	RC19	

*Dates unknown: locations estimated.

BOTTLE/CTD DATA SET NUMBER: 80-0041
YEAR:1980 VESSEL/AGENCY: LGL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY		70	22.90	148	29.70	80	07	17				X		X	YSI		
PRUDHOE BAY		70	22.90	148	29.70	80	08	08				X		X	YSI		
PRUDHOE BAY		70	23.00	148	30.25	80	07	17				X		X	YSI		
PRUDHOE BAY		70	23.00	148	30.25	80	08	08				X		X	YSI		
PRUDHOE BAY		70	23.10	148	30.70	80	07	17				X		X	YSI		
PRUDHOE BAY		70	23.10	148	30.70	80	08	08				X		X	YSI		
PRUDHOE BAY		70	23.20	148	31.10	80	07	17				X		X	YSI		
PRUDHOE BAY		70	23.20	148	31.10	80	08	08				X		X	YSI		
PRUDHOE BAY		70	23.30	148	31.50	80	07	17				X		X	YSI		
PRUDHOE BAY		70	23.30	148	31.50	80	08	08				X		X	YSI		
PRUDHOE BAY		70	23.50	148	32.20	80	07	17				X		X	YSI		
PRUDHOE BAY		70	23.50	148	32.20	80	08	08				X		X	YSI		
SIMPSON LAGOON		70	26.50	148	46.20	80	07					X		X	YSI		

BOTTLE/CTD DATA SET NUMBER: 80-0047
YEAR:1980 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	1	70	33.60	149	25.20	80	04	06		2.	2.		X				
PRUDHOE BAY	1	70	33.60	149	25.20	80	06	17		2.	2.		X				
PRUDHOE BAY	1	70	33.60	149	25.20	80	07	02		2.	2.		X				
PRUDHOE BAY	2	70	34.80	149	27.10	80	05	29		12.	12.		X				
PRUDHOE BAY	2	70	35.30	149	27.00	80	04	06		10.5	11.		X				
PRUDHOE BAY	3	70	31.70	149	50.40	80	05	30		0.			X				
PRUDHOE BAY	3	70	32.10	149	51.70	80	04	04		2.	2.		X				
PRUDHOE BAY	4	70	34.60	149	50.40	80	05	25		9.	9.		X				
PRUDHOE BAY	4	70	35.40	149	51.70	80	04	04		11.5	12.		X				
PRUDHOE BAY	4	70	35.40	149	51.70	80	06	17		9.	9.		X				
PRUDHOE BAY	5	70	30.00	149	9.50	80	05	30		0.	2.		X				
PRUDHOE BAY	6	70	31.50	149	1.20	80	05	29		10.	10.		X				
PRUDHOE BAY	6	70	32.30	149	2.60	80	04	06		8.	8.		X				
PRUDHOE BAY	6	70	38.30	147	20.30	80	06	18		12.	12.		X				
PRUDHOE BAY	7	70	27.90	148	54.70	80	05	29		0.	2.		X				
PRUDHOE BAY	8	70	30.70	148	53.40	80	05	29		7.	7.		X				
PRUDHOE BAY	8	70	30.70	148	53.40	80	07	02		12.	12.		X				
PRUDHOE BAY	8	70	31.10	148	54.00	80	04	06		6.9	7.		X				
PRUDHOE BAY	9	70	32.80	149	42.90	80	04	05		2.	2.		X				
PRUDHOE BAY	B	70	30.40	148	55.00	80	07	02		0.	0.		X				
PRUDHOE BAY	H	70	25.30	147	29.60	80	11	09		10.	10.		X				
PRUDHOE BAY	10	70	35.50	149	37.00	80	05	29		10.	10.		X				
PRUDHOE BAY	10	70	35.60	149	42.90	80	04	05		13.8	14.		X				
PRUDHOE BAY	11	70	27.50	150	4.70	80	04	04		2.	2.		X				
PRUDHOE BAY	11	70	29.30	150	7.30	80	05	30		0.			X				
PRUDHOE BAY	12	70	33.10	150	21.00	80	05	30		8.	8.		X				
PRUDHOE BAY	12	70	33.30	150	21.60	80	04	04		7.	7.		X				
PRUDHOE BAY	13	70	34.20	150	41.00	80	05	30		7.	7.		X				
PRUDHOE BAY	13	70	34.90	150	41.50	80	04	04		7.5	8.		X				
PRUDHOE BAY	14	70	20.00	148	20.50	80	05	29		0.	2.		X				
PRUDHOE BAY	14	70	20.20	148	20.30	80	04	06		2.5	2.5		X				
PRUDHOE BAY	15	70	26.50	148	19.70	80	04	03		4.	4.		X				
PRUDHOE BAY	15	70	26.50	148	19.70	80	05	29		6.5	7.		X				
PRUDHOE BAY	16	70	26.10	147	55.90	80	04	03		6.	6.		X				
PRUDHOE BAY	16	70	26.10	147	55.90	80	05	29		7.	7.		X				
PRUDHOE BAY	17	70	22.40	147	33.80	80	05	28		7.	7.		X				
PRUDHOE BAY	17	70	22.60	147	43.40	80	04	03		5.	5.		X				
PRUDHOE BAY	17	70	29.20	148	50.10	80	04	06		2.	2.		X				
PRUDHOE BAY	18	70	16.40	147	12.20	80	05	28		5.	5.		X				
PRUDHOE BAY	18	70	16.70	147	17.30	80	04	03		6.	6.		X				
PRUDHOE BAY	19	70	10.50	147	7.00	80	06	18		5.	5.		X				
PRUDHOE BAY	19	70	11.00	147	3.50	80	04	03		4.5	5.		X				
PRUDHOE BAY	19	70	11.10	147	3.20	80	05	28		5.	5.		X				

PRUDHOE BAY	20	70	14.20	147	29.30	80	05	28	5.	5.		X
PRUDHOE BAY	20	70	14.20	147	29.80	80	04	03	3.	3.		X
PRUDHOE BAY	21	70	28.70	148	33.00	80	04	06	6.5	7.		X
PRUDHOE BAY	22	70	23.80	148	19.00	80	04	03	1.	1.		X
PRUDHOE BAY	22	70	23.80	148	19.00	80	05	29	0.	2.		X
PRUDHOE BAY	23	70	35.00	150	42.60	80	08	13	6.	7.		X
PRUDHOE BAY	24	70	33.50	151	0.00	80	08	13	6.	7.		X
PRUDHOE BAY	25	70	34.10	151	15.60	80	08	13	6.	7.		X
PRUDHOE BAY	25	70	31.70	149	40.60	80	05	25	13.	13.		X
PRUDHOE BAY	26	70	37.30	151	28.70	80	08	08	6.	7.		X
PRUDHOE BAY	27	70	40.00	151	46.00	80	08	08	6.	6.		X
PRUDHOE BAY	28	70	44.00	151	53.00	80	08	08	6.	6.		X
PRUDHOE BAY	29	70	43.00	151	47.00	80	08	09	9.	9.		X
PRUDHOE BAY	30	70	36.30	151	17.50	80	08	09	9.	9.		X
PRUDHOE BAY	31	70	36.30	151	13.90	80	08	09	9.	9.		X
PRUDHOE BAY	32	70	35.00	151	3.00	80	08	09	9.	9.		X
PRUDHOE BAY	33	70	35.00	150	15.00	80	08	09	9.	9.		X
PRUDHOE BAY	34	70	33.50	150	17.10	80	08	13	6.	6.		X
PRUDHOE BAY	35	70	32.80	150	9.50	80	08	07	2.5	3.		X
PRUDHOE BAY	36	70	33.80	152	2.70	80	08	09	1.	1.		X
PRUDHOE BAY	37	70	47.20	151	40.00	80	08	14	13.	13.		X
PRUDHOE BAY	38	70	37.40	150	49.00	80	08	14	13.	13.		X
PRUDHOE BAY	50	71	22.90	149	49.60	80	05	24	12.	12.		X
PRUDHOE BAY	75	71	49.80	149	46.60	80	05	25	13.	13.		X
PRUDHOE BAY	BP	70	17.70	147	32.40	80	05	28	6.	6.		X
PRUDHOE BAY	BP	70	19.30	147	35.10	80	11	09	5.	5.		X
PRUDHOE BAY	BP	70	19.60	147	34.50	80	03	05	5.	5.		X
PRUDHOE BAY	BP	70	19.60	147	34.50	80	03	06	5.	5.		X
PRUDHOE BAY	BP	70	20.50	147	33.80	80	06	18	7.	7.		X
PRUDHOE BAY	CR	70	26.00	150	23.00	80	04	05	5.	5.		X
PRUDHOE BAY	MB	70	33.70	150	57.00	80	05	30	7.	7.		X
PRUDHOE BAY	MB	70	34.70	151	19.60	80	05	30	5.	5.		X
PRUDHOE BAY	MR	70	15.00	148	59.50	80	09	04	0.			X
PRUDHOE BAY	PI		0.00		0.00	80	09	04	0.			X
PRUDHOE BAY	RI	70	28.90	148	20.90	80	09	04	0.			X
PRUDHOE BAY	SH	70	38.60	146	2.00	80	06	18	12.	12.		X
PRUDHOE BAY	202	70	44.80	149	27.10	80	06	17	12.	12.		X
PRUDHOE BAY	220	70	54.80	149	27.10	80	07	02	12.	12.		X
PRUDHOE BAY	808	70	40.70	148	53.40	80	06	17	12.	12.		X
PRUDHOE BAY	880	70	50.70	148	53.40	80	07	02	12.	12.		X

BOTTLE/CTD DATA SET NUMBER: 80-0048
YEAR:1980 VESSEL/AGENCY: APL, ICE CAMP

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT WO HR
N OF BARROW	4	72	23.40	152	0.00	80	09	19	12*			X		X	CTD	
N OF BARROW	5	72	23.40	152	1.00	80	09	19	17			X		X	CTD	
N OF BARROW	8	72	23.40	152	5.00	80	09	20	08			X		X	CTD	
N OF BARROW	10	72	23.50	152	7.00	80	09	20	14			X		X	CTD	
N OF BARROW	15	72	23.90	152	14.00	80	09	21	10			X		X	CTD	
N OF BARROW	17	72	24.80	152	20.00	80	09	22	08			X		X	CTD	
N OF BARROW	18	72	25.00	152	23.00	80	09	22	21			X		X	CTD	
N OF BARROW	19	72	25.30	152	28.00	80	09	23	06			X		X	CTD	
N OF BARROW	20	72	25.40	152	30.00	80	09	23	12			X		X	CTD	
N OF BARROW	21	72	25.60	152	31.00	80	09	23	18			X		X	CTD	
N OF BARROW	22	72	27.00	152	38.00	80	09	24	06			X		X	CTD	
N OF BARROW	23	72	28.20	152	42.00	80	09	24	21			X		X	CTD	
N OF BARROW	24	72	28.50	152	48.00	80	09	25	06			X		X	CTD	
N OF BARROW	25	72	28.80	152	49.00	80	09	25	09			X		X	CTD	
N OF BARROW	26	72	28.80	152	51.00	80	09	25	13			X		X	CTD	
N OF BARROW	27	72	28.70	152	54.00	80	09	25	21			X		X	CTD	
N OF BARROW	28	72	28.80	153	3.00	80	09	26	06			X		X	CTD	
N OF BARROW	29	72	28.50	153	10.00	80	09	26	13			X		X	CTD	
N OF BARROW	30	72	27.90	153	15.00	80	09	26	20			X		X	CTD	
N OF BARROW	31	72	27.20	153	29.00	80	09	27	06			X		X	CTD	
N OF BARROW	32	72	26.90	153	42.00	80	09	27	14			X		X	CTD	
N OF BARROW	33	72	26.30	153	56.00	80	09	27	21			X		X	CTD	
N OF BARROW	34	72	25.20	154	9.00	80	09	28	06			X		X	CTD	
N OF BARROW	35	72	24.00	154	13.00	80	09	28	12			X		X	CTD	
N OF BARROW	36	72	22.00	154	20.00	80	09	28	22			X		X	CTD	
N OF BARROW	37	72	21.80	154	26.00	80	09	29	06			X		X	CTD	
N OF BARROW	38	72	20.80	154	33.00	80	09	29	16			X		X	CTD	
N OF BARROW	39	72	20.10	154	35.00	80	09	29	21			X		X	CTD	

N OF BARROW	40	72	19.10	154	43.00	80	09	30	06	X	X	CTD
N OF BARROW	41	72	18.40	154	46.00	80	09	30	13	X	X	CTD
N OF BARROW	42	72	17.80	154	49.00	80	09	30	21	X	X	CTD
N OF BARROW	43	72	17.20	154	57.00	80	10	01	06	X	X	CTD
N OF BARROW	44	72	17.60	155	1.00	80	10	01	14	X	X	CTD
N OF BARROW	45	72	17.90	155	5.00	80	10	01	21	X	X	CTD
N OF BARROW	46	72	18.10	155	7.00	80	10	02	03	X	X	CTD
N OF BARROW	47	72	18.30	155	8.00	80	10	02	11	X	X	CTD
N OF BARROW	48	72	19.00	155	13.00	80	10	03	06	X	X	CTD
N OF BARROW	51	72	22.00	155	16.00	80	10	04	06	X	X	CTD
N OF BARROW	52	72	22.20	155	16.00	80	10	04	13	X	X	CTD
N OF BARROW	53	72	22.30	155	17.00	80	10	04	14	X	X	CTD
N OF BARROW	54	72	22.40	155	17.00	80	10	04	15	X	X	CTD
N OF BARROW	55	72	22.70	155	19.00	80	10	04	18	X	X	CTD
N OF BARROW	56	72	24.00	155	21.00	80	10	05	06	X	X	CTD
N OF BARROW	57	72	24.30	155	22.00	80	10	05	12	X	X	CTD
N OF BARROW	58	72	25.00	155	23.00	80	10	05	19	X	X	CTD
N OF BARROW	59	72	26.00	155	25.00	80	10	06	07	X	X	CTD
N OF BARROW	41A	72	18.40	154	46.00	80	09	30	14	X	X	CTD

* Local time.

BOTTLE/CTD DATA SET NUMBER: 80-0049
YEAR:1980 VESSEL/AGENCY: SAI,POLAR SEA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT NO HR
NE OF BARROW	1	71	59.00	155	32.00	80	09	12				X		X	APL	
NE OF BARROW	2	71	50.50	152	55.70	80	09	13				X		X	APL	
NE OF BARROW	4	70	51.70	149	19.50	80	09	14				X		X	APL	
NE OF BARROW	5	71	6.60	149	23.90	80	09	14				X		X	APL	
NE OF BARROW	7	71	32.10	149	35.30	80	09	14				X		X	APL	
NE OF BARROW	8	71	45.40	149	40.20	80	09	15				X		X	APL	
NE OF BARROW	9	72	4.30	149	45.70	80	09	15				X		X	APL	
NE OF BARROW	10	72	17.90	149	57.80	80	09	15				X		X	APL	
NE OF BARROW	12	72	28.70	151	19.00	80	09	16				X		X	APL	
NE OF BARROW	15	72	28.10	151	23.30	80	09	17				X		X	APL	
NE OF BARROW	16	72	28.70	151	27.50	80	09	17				X		X	APL	
NE OF BARROW	17	72	29.30	151	30.10	80	09	17				X		X	APL	
NE OF BARROW	18	72	29.80	151	32.60	80	09	18				X		X	APL	
NE OF BARROW	19	72	29.90	151	39.30	80	09	18				X		X	APL	
NE OF BARROW	20	72	18.00	151	51.90	80	09	18				X		X	APL	
NE OF BARROW	21	72	29.00	151	6.60	80	09	19				X		X	APL	
NE OF BARROW	22	72	30.10	151	18.70	80	09	19				X		X	APL	
NE OF BARROW	23	72	36.40	151	29.90	80	09	19				X		X	APL	
NE OF BARROW	24	72	40.20	151	58.70	80	09	19				X		X	APL	
NE OF BARROW	25	72	23.00	151	16.00	80	09	19				X		X	APL	
NE OF BARROW	26	72	30.50	151	29.00	80	09	19				X		X	APL	
NE OF BARROW	27	72	21.00	152	18.50	80	09	20				X		X	APL	
NE OF BARROW	28	71	29.00	152	8.00	80	09	20				X		X	APL	
NE OF BARROW	29	71	25.00	152	8.00	80	09	20				X		X	APL	
NE OF BARROW	30	71	12.00	152	4.00	80	09	20				X		X	APL	
NE OF BARROW	31	71	39.00	152	12.10	80	09	20				X		X	APL	
NE OF BARROW	32	71	48.20	152	3.30	80	09	21				X		X	APL	
NE OF BARROW	33	71	53.10	152	18.60	80	09	21				X		X	APL	
NE OF BARROW	34	71	57.20	152	26.90	80	09	21				X		X	APL	
NE OF BARROW	35	72	6.90	152	40.10	80	09	21				X		X	APL	
NE OF BARROW	36	72	14.40	152	31.50	80	09	21				X		X	APL	
NE OF BARROW	37	72	20.90	152	41.10	80	09	21				X		X	APL	
NE OF BARROW	38	72	28.50	152	26.90	80	09	22				X		X	APL	
NE OF BARROW	39	72	34.60	152	29.20	80	09	22				X		X	APL	
NE OF BARROW	40	72	43.10	152	38.90	80	09	22				X		X	APL	
NE OF BARROW	41	72	50.50	152	40.40	80	09	22				X		X	APL	
NE OF BARROW	43	73	5.80	152	46.40	80	09	23				X		X	APL	
NE OF BARROW	44	73	12.60	152	48.40	80	09	23				X		X	APL	
NE OF BARROW	45	73	12.70	152	47.20	80	09	23				X		X	APL	
NE OF BARROW	46	73	21.20	152	25.00	80	09	23				X		X	APL	
NE OF BARROW	47	73	38.80	151	20.00	80	09	24				X		X	APL	
NE OF BARROW	48	73	34.20	151	37.70	80	09	24				X		X	APL	
NE OF BARROW	49	73	26.80	151	7.00	80	09	24				X		X	APL	
NE OF BARROW	51	72	43.30	152	55.50	80	09	25				X		X	APL	
NE OF BARROW	52	72	44.40	153	10.60	80	09	26				X		X	APL	
NE OF BARROW	53	72	43.20	153	28.60	80	09	26				X		X	APL	
NE OF BARROW	54	72	43.20	153	28.60	80	09	27				X		X	APL	
NE OF BARROW	55	72	26.40	153	18.00	80	09	27				X		X	APL	
NE OF BARROW	56	72	7.80	154	1.50	80	09	28				X		X	APL	
NE OF BARROW	57	72	12.30	154	55.20	80	09	28				X		X	APL	
NE OF BARROW	58	72	13.60	154	52.60	80	09	28				X		X	APL	
NE OF BARROW	59	72	13.20	154	54.80	80	09	28				X		X	APL	
NE OF BARROW	60	72	12.20	154	59.40	80	09	28				X		X	APL	
NE OF BARROW	61	72	12.00	154	1.60	80	09	28				X		X	APL	
NE OF BARROW	62	72	12.00	154	2.00	80	09	28				X		X	APL	
NE OF BARROW	63	72	11.60	154	6.00	80	09	28				X		X	APL	
NE OF BARROW	64	72	11.50	154	8.00	80	09	28				X		X	APL	
NE OF BARROW	65	72	11.50	154	9.60	80	09	28				X		X	APL	
NE OF BARROW	66	72	11.50	154	9.60	80	09	28				X		X	APL	
NE OF BARROW	67	72	11.50	154	9.60	80	09	28				X		X	APL	
NE OF BARROW	68	72	11.50	154	9.60	80	09	28				X		X	APL	
NE OF BARROW	69	72	11.30	154	11.20	80	09	28				X		X	APL	
NE OF BARROW	6A	71	20.70	149	34.20	80	09	14				X		X	APL	
NE OF BARROW	6B	71	20.70	149	34.20	80	09	14				X		X	APL	
NE OF BARROW	70	72	13.40	154	9.70	80	09	28				X		X	APL	
NE OF BARROW	71	72	3.80	154	25.80	80	09	29				X		X	APL	
NE OF BARROW	72	71	54.90	154	41.00	80	09	29				X		X	APL	
NE OF BARROW	73	71	47.50	154	56.10	80	09	29				X		X	APL	
NE OF BARROW	74	71	40.70	157	31.00	80	09	29				X		X	APL	
NE OF BARROW	75	71	35.70	156	47.80	80	09	29				X		X	APL	
NE OF BARROW	76	71	31.20	156	37.00	80	09	29				X		X	APL	

NE OF BARROW	78	71	40.90	155	28.30	80	09	30		X	X APL
NE OF BARROW	80	71	50.40	155	30.00	80	09	30		X	X APL
NE OF BARROW	81	72	0.50	155	31.90	80	09	30		X	X APL
NE OF BARROW	82	72	9.30	155	32.90	80	10	01		X	X APL
NE OF BARROW	83	72	34.50	155	1.00	80	10	01		X	X APL
NE OF BARROW	84	73	8.00	153	13.50	80	10	02		X	X APL
NE OF BARROW	85	72	40.80	153	33.00	80	10	02		X	X APL
NE OF BARROW	86	72	17.40	155	33.10	80	10	02		X	X APL
NE OF BARROW	87	72	27.80	155	31.90	80	10	02		X	X APL
NE OF BARROW	88	72	37.90	155	36.90	80	10	03		X	X APL
NE OF BARROW	89	72	32.20	155	58.50	80	10	03		X	X APL
NE OF BARROW	90	72	27.70	156	7.60	80	10	04		X	X APL
NE OF BARROW	91	72	15.00	156	30.50	80	10	05		X	X APL
NE OF BARROW	92	72	19.40	156	11.10	80	10	06		X	X APL
NE OF BARROW	93	72	21.10	156	1.20	80	10	06		X	X APL
NE OF BARROW	94	72	20.50	155	21.90	80	10	07		X	X APL
NE OF BARROW	95	72	19.80	155	18.90	80	10	07		X	X APL
NE OF BARROW	96	72	8.70	155	36.40	80	10	08		X	X APL
NE OF BARROW	97	71	59.80	155	55.90	80	10	08		X	X APL
NE OF BARROW	98	71	48.60	156	18.20	80	10	08		X	X APL
NE OF BARROW	99	71	39.10	156	26.70	80	10	08		X	X APL
NE OF BARROW	100	71	29.30	156	39.20	80	10	08		X	X APL
NE OF BARROW	11A	72	19.00	150	11.50	80	09	15		X	X APL
NE OF BARROW	11B	72	19.00	150	11.50	80	09	15		X	X APL
NE OF BARROW	13A	72	28.80	151	20.70	80	09	16		X	X APL
NE OF BARROW	13B	72	28.80	151	20.70	80	09	16		X	X APL
NE OF BARROW	14A	72	28.20	151	23.60	80	09	17		X	X APL
NE OF BARROW	14B	72	28.20	151	23.60	80	09	17		X	X APL
NE OF BARROW	42A	72	58.90	152	43.00	80	09	23		X	X APL
NE OF BARROW	42B	72	58.90	152	43.00	80	09	23		X	X APL
NE OF BARROW	50A	72	58.00	152	49.00	80	09	24		X	X APL
NE OF BARROW	50B	72	58.00	152	49.00	80	09	24		X	X APL
NE OF BARROW	79A	71	38.50	155	42.90	80	09	30		X	X APL
NE OF BARROW	79B	71	38.50	155	42.90	80	09	30		X	X APL

BOTTLE/CTD DATA SET NUMBER: 80-0054
YEAR:1980 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	DATE MO	DATE DY	DATE HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	PARAM MEAS S	PARAM MEAS T	INSTR	INT HR	NO
STEFANSSON SOUND		70	24.0	147	31.1	80	04	10		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	04	14		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	04	17		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	04	19		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	04	24		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	04	29		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	02		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	05		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	08		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	15		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	17		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	20		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	22		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	24		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	26		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	29		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	05	31		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	06	02		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	06	05		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	06	07		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	06	09		7.	8.	X			BOTT		
STEFANSSON SOUND		70	24.0	147	31.1	80	06	11		7.	8.	X			BOTT		

BOTTLE/CTD DATA SET NUMBER: 81-0035
YEAR:1981 VESSEL/AGENCY: KINNETIC LABS, D.W. HOOD

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	B1	71	19.43	156	45.42	81	08	07	11*	18	18	X		X	INTO		
NE CHUKCHI	B2	71	23.47	156	50.90	81	08	07	14	24	76	X		X	INTO		
NE CHUKCHI	B3	71	22.58	156	48.90	81	08	07	15	24	51	X		X	INTO		
NE CHUKCHI	B4	71	21.73	156	47.62	81	08	07	15	24	55	X		X	INTO		
NE CHUKCHI	B5	71	20.78	156	45.90	81	08	07	16	24	40	X		X	INTO		
NE CHUKCHI	SC6	70	55.60	157	39.60	81	08	08	14	9	9	X		X	INTO		
NE CHUKCHI	SC7	70	56.38	157	41.30	81	08	08	14	15	15	X		X	INTO		
NE CHUKCHI	SC8	70	57.15	157	43.10	81	08	08	14	18	18	X		X	INTO		
NE CHUKCHI	SC9	70	58.00	157	44.88	81	08	08	15	20	20	X		X	INTO		
NE CHUKCHI	PB13	71	49.17	159	38.00	81	08	10	13	15	20	X		X	INTO		
NE CHUKCHI	PB14	70	50.00	159	39.33	81	08	10	14	21	30	X		X	INTO		
NE CHUKCHI	PB15	70	50.92	159	40.25	81	08	10	14	22	32	X		X	INTO		
NE CHUKCHI	PB16	70	52.33	159	43.33	81	08	10	15	25	44	X		X	INTO		
NE CHUKCHI	PB17	70	54.50	159	46.00	81	08	10	15	25	51	X		X	INTO		
NE CHUKCHI	PB18	70	56.33	159	48.66	81	08	10	16	25	56	X		X	INTO		
NE CHUKCHI	SC10	70	58.77	157	46.73	81	08	08	15	20	20	X		X	INTO		
NE CHUKCHI	SC11	71	0.43	157	50.20	81	08	08	16	23	23	X		X	INTO		
NE CHUKCHI	SC12	71	1.97	157	53.92	81	08	08	16	24	29	X		X	INTO		

* Local times.

BOTTLE/CTD DATA SET NUMBER: 81-0036
YEAR:1981 VESSEL/AGENCY: LGL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	1	70	24.30	148	31.30*	81	07										
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	03					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	04					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	05					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	06					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	07					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	08					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	09					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	10					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	11					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	12					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	13					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	14					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	15					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	16					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	17					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	18					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	19					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	20					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	21					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	22					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	23					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	24					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	25					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	26					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	27					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	28					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	29					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	30					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	07	31					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	01					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	02					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	03					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	04					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	05					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	06					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	07					X	X			
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	08					X	X			

*Locations estimated.

PRUDHOE BAY	1	70	25.80	148	40.00	81	08	09	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	10	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	11	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	12	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	13	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	14	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	15	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	16	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	17	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	18	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	19	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	20	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	21	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	22	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	23	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	24	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	25	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	26	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	27	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	28	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	29	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	30	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	08	31	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	01	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	02	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	03	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	04	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	05	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	06	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	07	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	08	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	09	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	10	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	11	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	12	X	X
PRUDHOE BAY	1	70	25.80	148	40.00	81	09	13	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	03	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	04	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	05	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	06	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	07	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	08	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	09	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	10	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	11	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	12	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	13	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	14	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	15	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	16	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	17	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	18	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	19	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	20	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	21	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	22	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	23	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	24	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	25	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	26	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	27	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	28	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	29	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	30	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	07	31	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	01	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	02	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	03	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	04	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	05	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	06	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	07	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	08	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	09	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	10	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	11	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	12	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	13	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	14	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	15	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	16	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	17	X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	18	X	X

PRUDHOE BAY	2	70	23.90	148	35.50	81	08	19		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	20		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	21		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	22		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	23		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	24		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	25		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	26		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	27		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	28		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	29		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	30		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	08	31		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	01		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	02		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	03		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	04		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	05		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	06		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	07		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	08		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	09		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	10		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	11		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	12		X	X
PRUDHOE BAY	2	70	23.90	148	35.50	81	09	13		X	X
PRUDHOE BAY	2	70	24.30	148	31.70	81	07				
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	03		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	04		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	05		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	06		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	07		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	08		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	09		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	10		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	11		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	12		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	13		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	14		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	15		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	16		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	17		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	18		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	19		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	20		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	21		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	22		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	23		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	24		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	25		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	26		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	27		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	28		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	29		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	30		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	07	31		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	01		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	02		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	03		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	04		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	05		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	06		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	07		X	X
PRUDHOE BAY	3	70	23.20	1[illegible]	[illegible].70	81	08	08		X	X
PRUDHOE BAY	3	70	23.20	14[illegible]	[illegible].70	81	08	09		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	10		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	11		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	12		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	13		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	14		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	15		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	16		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	17		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	18		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	19		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	20		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	21		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	22		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	23		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	24		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	25		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	26		X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	27		X	X

PRUDHOE BAY	3	70	23.20	148	33.70	81	08	28	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	29	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	30	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	08	31	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	01	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	02	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	03	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	04	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	05	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	06	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	07	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	08	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	09	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	10	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	11	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	12	X	X
PRUDHOE BAY	3	70	23.20	148	33.70	81	09	13	X	X
PRUDHOE BAY	3	70	23.60	148	31.40	81	07			
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	03	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	04	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	05	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	06	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	07	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	08	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	09	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	10	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	11	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	12	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	13	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	14	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	15	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	16	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	17	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	18	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	19	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	20	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	21	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	22	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	23	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	24	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	25	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	26	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	27	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	28	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	29	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	30	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	07	31	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	01	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	02	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	03	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	04	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	05	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	06	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	07	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	08	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	09	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	10	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	11	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	12	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	13	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	14	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	15	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	16	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	17	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	18	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	19	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	20	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	21	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	22	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	23	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	24	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	25	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	26	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	27	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	28	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	29	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	30	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	08	31	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	01	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	02	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	03	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	04	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	05	X	X

PRUDHOE BAY	4	70	22.90	148	32.10	81	09	06	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	07	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	08	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	09	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	10	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	11	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	12	X	X
PRUDHOE BAY	4	70	22.90	148	32.10	81	09	13	X	X
PRUDHOE BAY	4	70	24.10	148	31.70	81	07			
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	03	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	04	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	05	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	06	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	07	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	08	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	09	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	10	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	11	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	12	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	13	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	14	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	15	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	16	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	17	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	18	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	19	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	20	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	21	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	22	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	23	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	24	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	25	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	26	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	27	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	28	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	29	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	30	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	07	31	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	01	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	02	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	03	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	04	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	05	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	06	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	07	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	08	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	09	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	10	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	11	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	12	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	13	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	14	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	15	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	16	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	17	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	18	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	19	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	20	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	21	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	22	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	23	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	24	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	25	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	26	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	27	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	28	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	29	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	30	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	08	31	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	01	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	02	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	03	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	04	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	05	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	06	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	07	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	08	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	09	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	10	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	11	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	12	X	X
PRUDHOE BAY	5	70	22.80	148	31.50	81	09	13	X	X
PRUDHOE BAY	5	70	24.10	148	33.60	81	07			

PRUDHOE BAY	6	70	22.30	148	30.10	81	07	03	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	04	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	05	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	06	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	07	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	08	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	09	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	10	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	11	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	12	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	13	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	14	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	15	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	16	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	17	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	18	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	19	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	20	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	21	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	22	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	23	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	24	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	25	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	26	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	27	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	28	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	29	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	30	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	07	31	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	01	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	02	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	03	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	04	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	05	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	06	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	07	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	08	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	09	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	10	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	11	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	12	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	13	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	14	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	15	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	16	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	17	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	18	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	19	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	20	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	21	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	22	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	23	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	24	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	25	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	26	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	27	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	28	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	29	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	30	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	08	31	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	01	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	02	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	03	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	04	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	05	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	06	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	07	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	08	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	09	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	10	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	11	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	12	X	X
PRUDHOE BAY	6	70	22.30	148	30.10	81	09	13	X	X
PRUDHOE BAY	6	70	25.20	148	40.00	81	07			
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	03	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	04	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	05	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	06	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	07	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	08	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	09	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	10	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	11	X	X

PRUDHOE BAY	7	70	22.10	148	29.10	81	07	12	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	13	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	14	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	15	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	16	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	17	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	18	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	19	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	20	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	21	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	22	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	23	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	24	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	25	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	26	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	27	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	28	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	29	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	30	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	07	31	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	01	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	02	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	03	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	04	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	05	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	06	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	07	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	08	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	09	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	10	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	11	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	12	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	13	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	14	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	15	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	16	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	17	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	18	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	19	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	20	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	21	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	22	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	23	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	24	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	25	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	26	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	27	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	28	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	29	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	30	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	08	31	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	01	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	02	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	03	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	04	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	05	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	06	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	07	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	08	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	09	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	10	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	11	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	12	X	X
PRUDHOE BAY	7	70	22.10	148	29.10	81	09	13	X	X
PRUDHOE BAY	7	70	25.80	148	39.60	81	07			
PRUDHOE BAY	10	70	24.50	148	31.50	81	07			
PRUDHOE BAY	11	70	24.10	148	31.30	81	07			
PRUDHOE BAY	12	70	24.60	148	31.80	81	07			
PRUDHOE BAY	13	70	24.60	148	30.90	81	07			

*Locations estimated.

BOTTLE/CTD DATA SET NUMBER: 81-0037
YEAR:1981 VESSEL/AGENCY: FSRG

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SLOPE	401	71 33.20	148 20.30	81 04 06 21	1029	2588	X		X	GLDL		
ALASKAN SLOPE	403	71 14.20	148 23.40	81 04 06 22	1022	1337	X		X	GLDL		
ALASKAN SHELF	407	70 56.40	148 12.90	81 04 07 00	41	43	X		X	GLDL		
ALASKAN SLOPE	500	71 36.30	143 48.60	81 04 04 22	1023	3126	X		X	GLDL		
ALASKAN SLOPE	501	71 17.60	143 38.90	81 04 04 23	1025	2725	X		X	GLDL		
ALASKAN SLOPE	503	70 58.20	143 44.70	81 04 05 00	1020	1498	X		X	GLDL		
ALASKAN SLOPE	504	70 40.90	143 41.10	81 04 05 01	375	391	X		X	GLDL		
ALASKAN SHELF	507	70 24.70	143 42.00	81 04 05 02	39	41	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 81-0045
YEAR:1981 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	2	70 35.10	149 28.60	81 04 14	12.	12.						
	3	70 32.00	149 51.70	81 04 14	1.3	2.						
	8	70 31.00	148 55.00	81 04 14	12.	12.						
	12	70 33.30	150 21.60	81 04 14	6.5	7.						
HARRISON BAY	13	70 34.90	150 41.40	81 04 12	7.0	7.						
	15	70 26.40	148 19.00	81 04 14	8.	8.						
	18	70 16.70	147 17.30	81 04 13	5.0	5.						
	19	70 11.00	147 3.50	81 04 13	4.0	4.						
	20	70 14.20	147 28.80	81 04 13	5.0	5.						
	BP	70 18.00	147 32.30	81 04 13	6.5	7.						
COLVILLE RIVER	CR	70 24.50	150 28.90	81 04 12	1.3	2.						
PRUDHOE BAY	PB	70 19.70	148 22.40	81 04 12	1.5	2.						
HARRISON BAY	HB1	70 36.00	151 38.00	81 04 12	5.0	5.						
HARRISON BAY	HB2	70 33.90	151 8.00	81 04 12	6.5	7.						

BOTTLE/CTD DATA SET NUMBER: 81-0046
YEAR:1981 VESSEL/AGENCY: EXXON

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SAG DELTA		70 23.30	147 54.10	81 05 05	4.5							
SAG DELTA		70 23.30	147 54.10	81 07 18	4.5							
SAG DELTA		70 23.30	147 54.10	81 08 27	4.5							
SAG DELTA		70 23.30	147 54.10	81 08 29	4.5							

BOTTLE/CTD DATA SET NUMBER: 81-0047
YEAR:1981 VESSEL/AGENCY: NORTEC, ARCO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
PRUDHOE BAY	A	70 24.95	148 31.80	81 08*							
PRUDHOE BAY	B	70 24.95	148 32.30	81 08							
PRUDHOE BAY	C	70 26.20	148 36.30	81 08							

*Exact dates unknown.

BOTTLE/CTD DATA SET NUMBER: 81-0048
YEAR:1981 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
NE CHUKCHI	36	70 54.60	159 8.00	81 09 10 01		16	X		X		
NE CHUKCHI	37	70 58.50	159 14.70	81 09 10 00	38	41	X		X		
NE CHUKCHI	38	71 2.30	159 21.10	81 09 09 23	59	62	X		X		
NE CHUKCHI	39	71 7.40	159 31.00	81 09 09 22	60	63	X		X		
NE CHUKCHI	40	71 10.30	159 36.80	81 09 09 21	79	82	X		X		
NE CHUKCHI	65	71 1.40	159 33.90	81 09 11 04	82	85	X		X		
NE CHUKCHI	66	71 4.40	159 21.20	81 09 11 05	78	81	X		X		
NE CHUKCHI	67	71 4.00	159 14.70	81 09 11 06	85	88	X		X		
NE CHUKCHI	68	71 4.60	159 0.00	81 09 11 06	92	95	X		X		
NE CHUKCHI	69	71 8.20	158 40.50	81 09 11 07	101	104	X		X		
NE CHUKCHI	70	71 0.50	157 32.20	81 09 11 19	21	24	X		X		
NE CHUKCHI	71	71 5.20	157 37.00	81 09 11 20	32	33	X		X		
NE CHUKCHI	72	71 9.50	157 44.00	81 09 11 21		41	X		X		
NE CHUKCHI	73	71 12.90	157 44.40	81 09 11 22	44	44	X		X		
NE CHUKCHI	74	71 17.60	158 1.80	81 09 11 23	90	90	X		X		
NE CHUKCHI	75	71 21.70	158 7.80	81 09 12 00	114	114	X		X		
NE CHUKCHI	41A	71 15.40	159 45.40	81 09 09 19	61	64	X		X		

BOTTLE/CTD DATA SET NUMBER: 81-0051
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
OLIKTOK POINT		70 31.2	149 51.6*	81 08			X		X	MART	
OLIKTOK POINT		70 31.2	149 51.6*	81 09			X		X	MART	

* Central location of survey.

BOTTLE/CTD DATA SET NUMBER: 81-0052
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
SAG DELTA		70 25.2	147 56.4*	81 08 *			X		X	MART	

*Central location of survey; nominal date.

BOTTLE/CTD DATA SET NUMBER: 82-0012
YEAR:1982 VESSEL/AGENCY: NORTEC, SOHIO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
SAG DELTA	1	70 22.24	148 11.80	82 08 14			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 15			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 16			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 17			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 18			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 19			X		X	INTO	
SAG DELTA	1	70 22.24	148 11.80	82 08 21			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 14			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 15			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 16			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 17			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 18			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 19			X		X	INTO	
SAG DELTA	2	70 22.76	148 11.59	82 08 21			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 14			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 15			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 16			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 17			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 18			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 19			X		X	INTO	
SAG DELTA	3	70 23.28	148 11.51	82 08 21			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 14			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 15			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 16			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 17			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 18			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 19			X		X	INTO	
SAG DELTA	4	70 23.80	148 11.32	82 08 21			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 14			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 15			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 16			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 17			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 18			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 19			X		X	INTO	
SAG DELTA	5	70 24.34	148 10.98	82 08 21			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 14			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 15			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 16			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 17			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 18			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 19			X		X	INTO	
SAG DELTA	6	70 24.88	148 10.87	82 08 21			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 14			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 15			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 16			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 17			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 18			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 19			X		X	INTO	
SAG DELTA	7	70 25.36	148 10.56	82 08 21			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 12			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 14			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 15			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 16			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 17			X		X	INTO	
SAG DELTA	8	70 22.07	148 5.29	82 08 18			X		X	INTO	
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SAG DELTA	9	70 22.74	148 4.47	82 08 12			X		X	INTO	
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SAG DELTA	9	70 22.74	148 4.47	82 08 17			X		X	INTO	
SAG DELTA	9	70 22.74	148 4.47	82 08 18			X		X	INTO	
SAG DELTA	9	70 22.74	148 4.47	82 08 19			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 12			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 14			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 15			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 16			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 17			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 18			X		X	INTO	
SAG DELTA	10	70 23.21	148 4.12	82 08 19			X		X	INTO	
SAG DELTA	11	70 23.73	148 3.60	82 08 12			X		X	INTO	

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SAG	DELTA	22	70	22.25	147	54.42	82	08	15	X	X INTO
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SAG	DELTA	42	70	18.80	147	38.13	82	08	17			X	X	INTO	
SAG	DELTA	42	70	18.80	147	38.13	82	08	18			X	X	INTO	
SAG	DELTA	42	70	18.80	147	38.13	82	08	19			X	X	INTO	

BOTTLE/CTD DATA SET NUMBER: 82-0013
YEAR:1982 VESSEL/AGENCY: LGL, SOWIO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
SAG DELTA	3	70	20.70	148	2.50*	82	07	04				X		X	YSI		
SAG DELTA	3	70	20.70	148	2.50	82	07	05				X		X	YSI		
SAG DELTA	3	70	20.70	148	2.50	82	07	06				X		X	YSI		
SAG DELTA	3	70	20.70	148	2.50	82	07	07				X		X	YSI		

*Estimated locations.

SAG	DELTA	3	70	20.70	148	2.50	82	07	08	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	09	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	10	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	11	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	12	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	13	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	14	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	15	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	16	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	17	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	18	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	19	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	20	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	21	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	22	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	23	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	24	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	25	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	26	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	27	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	28	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	29	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	30	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	07	31	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	01	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	02	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	03	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	04	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	05	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	06	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	07	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	08	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	09	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	10	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	11	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	12	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	13	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	14	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	15	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	16	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	17	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	18	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	19	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	20	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	21	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	22	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	23	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	24	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	25	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	26	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	27	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	28	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	29	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	30	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	08	31	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	01	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	02	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	03	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	04	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	05	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	06	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	07	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	08	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	09	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	10	X	X	YSI
SAG	DELTA	3	70	20.70	148	2.50	82	09	11	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	04	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	05	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	06	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	07	X	X	YSI
SAG	DELTA	5	70	17.65	147	46.50	82	07	08	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	09	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	10	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	11	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	12	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	13	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	14	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	15	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	16	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	17	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	18	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	19	X	X	YSI
SAG	DELTA	5	70	17.65	147	48.50	82	07	20	X	X	YSI

SAG DELTA	5	70	17.65	147	48.50	82	07	21	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	22	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	23	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	24	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	25	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	26	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	27	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	28	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	29	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	30	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	07	31	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	01	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	02	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	03	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	04	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	05	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	06	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	07	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	08	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	09	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	10	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	11	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	12	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	13	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	14	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	15	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	16	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	17	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	18	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	19	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	20	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	21	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	22	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	23	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	24	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	25	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	26	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	27	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	28	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	29	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	30	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	08	31	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	01	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	02	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	03	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	04	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	05	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	06	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	07	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	08	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	09	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	10	X	X	YSI
SAG DELTA	5	70	17.65	147	48.50	82	09	11	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	04	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	05	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	06	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	07	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	08	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	09	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	10	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	11	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	12	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	13	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	14	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	15	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	16	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	17	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	18	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	19	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	20	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	21	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	22	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	23	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	24	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	25	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	26	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	27	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	28	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	29	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	30	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	07	31	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	01	X	X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	02	X	X	YSI

SAG DELTA	6	70	19.35	147	52.80	82	08	03			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	04			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	05			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	06			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	07			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	08			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	09			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	10			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	11			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	12			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	13			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	14			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	15			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	16			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	17			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	18			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	19			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	20			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	21			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	22			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	23			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	24			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	25			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	26			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	27			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	28			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	29			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	30			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	08	31			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	01			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	02			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	03			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	04			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	05			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	06			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	07			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	08			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	09			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	10			X		X	YSI
SAG DELTA	6	70	19.35	147	52.80	82	09	11			X		X	YSI

* Locations estimated.

BOTTLE/CTD DATA SET NUMBER: 82-0015
YEAR:1982 VESSEL/AGENCY: LGL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ANGUN LAGOON		69	56.65	142	25.30*	82	09	10									
ANGUN LAGOON		69	57.30	142	27.00	82	09	10									

*Nominal locations.

BOTTLE/CTD DATA SET NUMBER: 82-0016
YEAR:1982 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF	B1	69	54.80	142	21.10*	82	08	06		2.0	2.5						
ALASKAN SHELF	B2	69	55.30	142	20.60	82	08	06		2.0	2.5						
ALASKAN SHELF	B3	69	55.20	142	21.80	82	09	21		1.5	2.0						
ALASKAN SHELF	N1	69	52.40	142	15.40	82	08	06		2.0	2.5						
ALASKAN SHELF	N2	69	52.70	142	14.70	82	08	06		2.7	3.3						
ALASKAN SHELF	N3	69	52.90	142	13.80	82	08	06		2.5	3.0						
ALASKAN SHELF	N4	69	53.30	142	13.00	82	08	06		0.5	0.5						
ALASKAN SHELF	N5	69	52.00	142	10.10	82	09	21		1.5	2.0						
ALASKAN SHELF	N6	69	52.60	142	12.60	82	09	21		2.5	3.0						
ALASKAN SHELF	P1	69	53.40	142	16.90	82	08	06		1.0	1.5						
ALASKAN SHELF	P2	69	53.70	142	16.30	82	08	06		3.0	3.5						

ALASKAN SHELF	P3	69	53.90	142	15.80	82	08	06	3.0	3.5
ALASKAN SHELF	R1	69	56.10	142	21.50	82	09	21	2.0	2.5
ALASKAN SHELF	AL1	69	56.20	142	24.00	82	07	26	1.0	1.4
ALASKAN SHELF	AL1	69	56.20	142	24.00	82	07	29	0.5	1.5
ALASKAN SHELF	AL1	69	56.20	142	24.00	82	07	31	0.5	1.0
ALASKAN SHELF	AL1	69	56.20	142	24.00	82	08	04	0.5	1.0
ALASKAN SHELF	AL2	69	56.90	142	26.60	82	07	26	4.0	4.0
ALASKAN SHELF	AL2	69	56.90	142	26.60	82	07	29	3.0	3.0
ALASKAN SHELF	AL2	69	56.90	142	26.60	82	07	29	3.0	3.0
ALASKAN SHELF	AL2	69	56.90	142	26.60	82	07	31	2.5	3.0
ALASKAN SHELF	AL2	69	56.90	142	26.60	82	08	04	3.0	3.5
ALASKAN SHELF	AL3	69	57.40	142	28.20	82	07	26	4.0	4.0
ALASKAN SHELF	AL3	69	57.40	142	28.20	82	07	29	3.5	3.5
ALASKAN SHELF	AL3	69	57.40	142	28.20	82	07	31	3.0	3.5
ALASKAN SHELF	AL3	69	57.40	142	28.20	82	08	04	3.0	3.5
ALASKAN SHELF	AL4	69	57.80	142	29.40	82	07	26	0.5	2.0
ALASKAN SHELF	AL4	69	57.80	142	29.40	82	07	29	0.5	1.0
ALASKAN SHELF	AL4	69	57.80	142	29.40	82	07	31	0.5	1.0
ALASKAN SHELF	AL4	69	57.80	142	29.40	82	08	04	1.0	1.5
ALASKAN SHELF	AL5	69	56.30	142	26.20	82	07	29	0.5	0.5
ALASKAN SHELF	AL5	69	56.30	142	26.20	82	07	29	0.5	0.7
ALASKAN SHELF	AL5	69	56.30	142	26.20	82	07	31	0.5	1.0
ALASKAN SHELF	AL5	69	56.30	142	26.20	82	08	04	0.5	1.0
ALASKAN SHELF	AL6	69	56.50	142	25.40	82	07	26	2.5	3.7
ALASKAN SHELF	AL6	69	56.50	142	25.40	82	07	29	1.0	2.0
ALASKAN SHELF	AL6	69	56.50	142	25.40	82	07	31	2.0	2.5
ALASKAN SHELF	AL6	69	56.50	142	25.40	82	08	04	1.0	2.0
ALASKAN SHELF	AL7	69	56.60	142	24.80	82	07	26	2.5	3.2
ALASKAN SHELF	AL7	69	56.60	142	24.80	82	07	29	3.0	3.5
ALASKAN SHELF	AL7	69	56.60	142	24.80	82	07	31	4.0	4.5
ALASKAN SHELF	AL7	69	56.60	142	24.80	82	08	04	4.5	5.0
ALASKAN SHELF	AL8	69	56.90	142	23.20	82	08	04	4.0	5.0
ALASKAN SHELF	AL8	69	56.90	142	23.20	82	08	05	4.0	4.5
ALASKAN SHELF	AL9	69	57.20	142	22.20	82	08	05	7.0	8.0
ALASKAN SHELF	BAY	69	56.10	142	26.20	82	07	31	0.5	1.0
ALASKAN SHELF	BAY	69	56.10	142	26.20	82	07	31	1.0	1.5
ALASKAN SHELF	BAY	69	56.10	142	26.20	82	08	04	1.0	1.5
ALASKAN SHELF	AL5A	69	56.20	142	24.80	82	07	26	0.5	0.5
ALASKAN SHELF	AL8A	69	56.80	142	23.90	82	08	04	3.0	4.0

* Locations estimated.

BOTTLE/CTD DATA SET NUMBER: 82-0017
YEAR:1982 VESSEL/AGENCY: LGL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
AL. LAGOONS	F#1	69	53.50	142	18.50*	82	07	25					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	25					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	26					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	27					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	28					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	29					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	30					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	07	31					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	08	01					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	08	02					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	08	03					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	08	04					X	X			
AL. LAGOONS	F#1	69	53.50	142	18.50	82	08	05					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	25					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	25					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	26					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	27					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	28					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	29					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	30					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	07	31					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	08	01					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	08	02					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	08	03					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	08	04					X	X			
AL. LAGOONS	F#2	69	56.50	142	26.50	82	08	05					X	X			
AL. LAGOONS	F#3	69	54.50	142	20.00	82	07	29					X	X			
AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	25					X	X			
AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	25					X	X			

AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	26	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	27	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	28	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	07	29	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	08	01	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	08	02	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	08	03	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	08	04	X	X
AL. LAGOONS	G#1	69	54.50	142	20.00	82	08	05	X	X
AL. LAGOONS	G#1	69	54.50	142	22.00	82	07	30	X	X
AL. LAGOONS	G#1	69	54.50	142	22.00	82	07	31	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	25	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	25	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	26	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	27	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	28	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	29	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	30	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	07	31	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	08	01	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	08	02	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	08	03	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	08	04	X	X
AL. LAGOONS	G#2	69	55.00	142	20.50	82	08	05	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	25	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	25	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	26	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	27	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	28	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	29	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	30	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	07	31	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	08	01	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	08	02	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	08	03	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	08	04	X	X
AL. LAGOONS	G#3	69	53.00	142	16.50	82	08	05	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	25	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	25	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	26	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	27	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	28	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	29	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	30	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	07	31	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	08	01	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	08	02	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	08	03	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	08	04	X	X
AL. LAGOONS	G#4	69	53.50	142	15.00	82	08	05	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	25	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	25	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	26	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	27	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	28	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	29	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	30	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	07	31	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	08	01	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	08	02	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	08	03	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	08	04	X	X
AL. LAGOONS	G#5	69	57.50	142	30.00	82	08	05	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	25	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	25	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	26	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	27	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	28	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	29	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	30	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	07	31	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	08	01	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	08	02	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	08	03	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	08	04	X	X
AL. LAGOONS	G#6	69	58.00	142	29.50	82	08	05	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	25	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	25	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	26	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	27	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	28	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	29	X	X
AL. LAGOONS	G#7	69	54.00	142	20.00	82	07	30	X	X

AL.	LAGOONS	G#7	69	54.00	142	20.00	82	07	31	X	X
AL.	LAGOONS	G#7	69	54.00	142	20.00	82	08	01	X	X
AL.	LAGOONS	G#7	69	54.00	142	20.00	82	08	02	X	X
AL.	LAGOONS	G#7	69	54.00	142	20.00	82	08	03	X	X
AL.	LAGOONS	G#7	69	54.00	142	20.00	82	08	04	X	X
AL.	LAGOONS	G#7	69	54.00	142	20.00	82	08	05	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	25	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	25	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	26	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	27	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	28	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	29	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	30	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	07	31	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	08	01	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	08	02	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	08	03	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	08	04	X	X
AL.	LAGOONS	G#8	69	53.00	142	19.50	82	08	05	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	25	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	25	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	26	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	27	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	28	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	29	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	30	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	07	31	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	08	01	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	08	02	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	08	03	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	08	04	X	X
AL.	LAGOONS	G#9	69	52.50	142	16.00	82	08	05	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	25	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	25	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	26	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	27	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	28	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	29	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	30	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	07	31	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	08	01	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	08	02	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	08	03	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	08	04	X	X
AL.	LAGOONS	G#10	69	52.00	142	16.00	82	08	05	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	25	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	25	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	26	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	27	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	28	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	29	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	30	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	07	31	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	08	01	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	08	02	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	08	03	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	08	04	X	X
AL.	LAGOONS	G#11	69	56.50	142	25.50	82	08	05	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	25	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	25	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	26	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	27	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	28	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	29	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	30	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	07	31	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	08	01	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	08	02	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	08	03	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	08	04	X	X
AL.	LAGOONS	G#12	69	56.00	142	23.50	82	08	05	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	25	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	25	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	26	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	27	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	28	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	29	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	30	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	07	31	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	08	01	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	08	02	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	08	03	X	X
AL.	LAGOONS	G#13	69	56.00	142	23.50	82	08	04	X	X

G#13	69	56.00	142	23.50	82	08	05					X	X		

* Locations estimated.

BOTTLE/CTD DATA SET NUMBER: 82-0030
YEAR:1982 VESSEL/AGENCY: NORTEC,ARCO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	A	70	24.95	148	31.80	82	04	*									
PRUDHOE BAY	B	70	24.95	148	32.30	82	04										
PRUDHOE BAY	C	70	26.20	148	36.30	82	04										

* Unknown.

BOTTLE/CTD DATA SET NUMBER: 82-0031
YEAR:1982 VESSEL/AGENCY: NORTEC,ARCO

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	A	70	24.95	148	31.80	82	08	*									
PRUDHOE BAY	B	70	24.95	148	32.30	82	08										
PRUDHOE BAY	C	70	26.20	148	36.30	82	08										

* Unknown.

BOTTLE/CTD DATA SET NUMBER: 82-0033
YEAR:1982 VESSEL/AGENCY: NORTEC,SHELL

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
STEFANSSON SOUND		70	16.93	147	29.72	82	08	26				X		X	INTO		
STEFANSSON SOUND		70	16.93	147	29.72	82	08	27				X		X	INTO		

BOTTLE/CTD DATA SET NUMBER: 82-0041
YEAR:1982 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, HELICOPTER

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	400	70	54.50	159	1.70	82	03	12	22	15		X		X			
NE CHUKCHI	401	70	55.80	159	3.30	82	03	12	22	30		X		X			
NE CHUKCHI	402	71	0.70	159	10.10	82	03	12	23	63		X		X			
NE CHUKCHI	403	71	5.20	159	17.40	82	03	13	00	80		X		X			
NE CHUKCHI	404	71	10.00	159	24.80	82	03	13	00	59		X		X			
NE CHUKCHI	421	70	58.10	159	5.80	82	03	12	22	47		X		X			
NE CHUKCHI	601	71	4.00	157	28.30	82	03	13	20	23		X		X			
NE CHUKCHI	602	71	9.50	157	39.40	82	03	13	22	40		X		X			
NE CHUKCHI	603	71	12.70	157	47.80	82	03	13	22	48		X		X			
NE CHUKCHI	604	71	16.30	157	55.10	82	03	13	23	55		X		X			
NE CHUKCHI	605	71	19.40	158	2.00	82	03	13	23	114		X		X			
NE CHUKCHI	606	71	21.50	158	11.00	82	03	14	00	117		X		X			

BOTTLE/CTD DATA SET NUMBER: 82-0042
YEAR:1982 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, DISCOVERER

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
NE CHUKCHI	36	70 57.20	159 3.20	82 08 21 11	26	27	X		X		
NE CHUKCHI	37	70 58.40	159 10.40	82 08 21 12	35	37	X		X		
NE CHUKCHI	39	71 1.40	159 22.80	82 08 21 13	67	69	X		X		
NE CHUKCHI	40	71 1.90	159 26.10	82 08 21 14	81	83	X		X		
NE CHUKCHI	42	71 2.10	159 38.90	82 08 21 18	82	86	X		X		
NE CHUKCHI	43	71 1.80	159 41.20	82 08 21 18	73	76	X		X		
NE CHUKCHI	44	71 2.00	159 49.10	82 08 21 19	58	60	X		X		
NE CHUKCHI	70	71 2.90	159 30.50	82 08 22 22	82	84	X		X		
NE CHUKCHI	35N	70 55.80	158 57.40	82 08 21 10	13	19	X		X		
NE CHUKCHI	38N	71 0.30	159 16.90	82 08 21 13	49	52	X		X		
NE CHUKCHI	41N	71 2.30	159 32.90	82 08 21 15	77	81	X		X		
NE CHUKCHI	69C,N	70 43.90	159 57.50	82 08 22 16	15	18	X		X		

BOTTLE/CTD DATA SET NUMBER: 82-0043
YEAR:1982 VESSEL/AGENCY: KINNETIC

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
PRUDHOE BAY	1	70 22.0	148 27.9	82 07 24			X		X	RS5	
PRUDHOE BAY	2	70 22.8	148 27.9	82 07 24			X		X	RS5	
PRUDHOE BAY	3	70 23.6	148 27.9	82 07 24			X		X	RS5	
PRUDHOE BAY	4	70 24.4	148 27.9	82 07 24			X		X	RS5	
PRUDHOE BAY	5	70 25.2	148 27.9	82 07 24			X		X	RS5	
PRUDHOE BAY	6	70 22.4	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	7	70 23.2	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	8	70 24.0	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	9	70 24.4	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	10	70 24.8	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	11	70 25.2	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	12	70 25.6	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	13	70 26.0	148 29.7	82 07 24			X		X	RS5	
PRUDHOE BAY	14	70 24.0	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	15	70 24.4	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	16	70 24.8	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	17	70 25.2	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	18	70 25.6	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	19	70 26.0	148 30.9	82 07 24			X		X	RS5	
PRUDHOE BAY	20	70 23.0	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	21	70 23.6	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	22	70 24.0	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	23	70 24.4	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	24	70 24.8	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	25	70 25.2	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	26	70 25.6	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	27	70 26.0	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	28	70 23.4	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	29	70 24.0	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	30	70 24.4	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	31	70 24.8	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	32	70 25.2	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	33	70 25.6	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	34	70 26.0	148 32.1	82 07 24			X		X	RS5	
PRUDHOE BAY	35	70 24.4	148 35.1	82 07 24			X		X	RS5	
PRUDHOE BAY	36	70 25.2	148 35.1	82 07 24			X		X	RS5	
PRUDHOE BAY	37	70 25.8	148 35.1	82 07 24			X		X	RS5	
PRUDHOE BAY	38	70 26.4	148 35.1	82 07 24			X		X	RS5	
PRUDHOE BAY	39	70 25.0	148 36.9	82 07 24			X		X	RS5	
PRUDHOE BAY	40	70 25.6	148 36.9	82 07 24			X		X	RS5	
PRUDHOE BAY	41	70 26.2	148 36.9	82 07 24			X		X	RS5	
PRUDHOE BAY	42	70 25.2	148 38.7	82 07 24			X		X	RS5	
PRUDHOE BAY	1	70 22.0	148 27.9	82 07 25			X		X	RS5	
PRUDHOE BAY	2	70 22.8	148 27.9	82 07 25			X		X	RS5	

PRUDHOE BAY	3	70	23.6	148	27.9	82	07	25	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	07	25	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	07	25	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	07	25	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	07	25	X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	07	25	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	07	25	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	07	25	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	07	25	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	07	25	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	07	25	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	07	25	X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	07	25	X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	07	25	X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	07	26	X	X	RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	07	26	X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	07	26	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	07	26	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	07	26	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	07	26	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	07	26	X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	07	26	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	07	26	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	07	26	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	07	26	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	07	26	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	07	26	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	07	26	X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	07	26	X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	07	26	X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	07	28	X	X	RS5

PRUDHOE BAY	2	70	22.8	148	27.9	82	07	28	X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	07	28	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	07	28	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	07	28	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	07	28	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	07	28	X	X	RS5
PRUDHOE BAY	20	70	23.0	143	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	07	28	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	07	28	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	07	28	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	07	28	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	07	28	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	07	28	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	07	28	X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	07	28	X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	07	28	X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	07	29	X	X	RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	07	29	X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	07	29	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	07	29	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	07	29	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	07	29	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	07	29	X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	07	29	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	07	29	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	07	29	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	07	29	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	07	29	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	07	29	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	07	29	X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	07	29	X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	07	29	X	X	RS5

PRUDHOE BAY	1	70	22.0	148	27.9	82	08	16	X	X RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	08	16	X	X RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	08	16	X	X RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	08	16	X	X RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	08	16	X	X RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	08	16	X	X RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	08	16	X	X RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	08	16	X	X RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	08	16	X	X RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	08	16	X	X RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	08	16	X	X RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	08	16	X	X RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	08	16	X	X RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	08	16	X	X RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	08	16	X	X RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	08	16	X	X RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	08	17	X	X RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	08	17	X	X RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	08	17	X	X RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	08	17	X	X RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	08	17	X	X RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	08	17	X	X RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	08	17	X	X RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	08	17	X	X RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	08	17	X	X RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	08	17	X	X RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	08	17	X	X RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	08	17	X	X RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	08	17	X	X RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	08	17	X	X RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	08	17	X	X RS5

PRUDHOE BAY	42	70	25.2	148	38.7	82	08	17	X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	08	18	X	X	RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	08	18	X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	08	18	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	08	18	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	08	18	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	08	18	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	08	18	X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	08	18	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	08	18	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	08	18	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	08	18	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	08	18	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	08	18	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	08	18	X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	08	18	X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	08	18	X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	08	19	X	X	RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	08	19	X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	08	19	X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	08	19	X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	08	19	X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	08	19	X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	08	19	X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	08	19	X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	08	19	X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	08	19	X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	08	19	X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	08	19	X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	08	19	X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	08	19	X	X	RS5

PRUDHOE BAY	41	70	26.2	148	36.9	82	08	19	X	X RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	08	19	X	X RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	08	20	X	X RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	08	20	X	X RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	08	20	X	X RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	08	20	X	X RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	08	20	X	X RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	08	20	X	X RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	08	20	X	X RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	08	20	X	X RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	08	20	X	X RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	08	20	X	X RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	08	20	X	X RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	08	20	X	X RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	08	20	X	X RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	08	20	X	X RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	08	20	X	X RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	08	20	X	X RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	09	13	X	X RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	09	13	X	X RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	09	13	X	X RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	09	13	X	X RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	09	13	X	X RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	09	13	X	X RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	09	13	X	X RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	09	13	X	X RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	09	13	X	X RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	09	13	X	X RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	09	13	X	X RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	09	13	X	X RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	09	13	X	X RS5

PRUDHOE BAY	40	70	25.6	148	36.9	82	09	13			X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	09	13			X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	09	13			X	X	RS5
PRUDHOE BAY	1	70	22.0	148	27.9	82	09	15			X	X	RS5
PRUDHOE BAY	2	70	22.8	148	27.9	82	09	15			X	X	RS5
PRUDHOE BAY	3	70	23.6	148	27.9	82	09	15			X	X	RS5
PRUDHOE BAY	4	70	24.4	148	27.9	82	09	15			X	X	RS5
PRUDHOE BAY	5	70	25.2	148	27.9	82	09	15			X	X	RS5
PRUDHOE BAY	6	70	22.4	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	7	70	23.2	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	8	70	24.0	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	9	70	24.4	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	10	70	24.8	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	11	70	25.2	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	12	70	25.6	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	13	70	26.0	148	29.7	82	09	15			X	X	RS5
PRUDHOE BAY	14	70	24.0	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	15	70	24.4	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	16	70	24.8	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	17	70	25.2	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	18	70	25.6	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	19	70	26.0	148	30.9	82	09	15			X	X	RS5
PRUDHOE BAY	20	70	23.0	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	21	70	23.6	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	22	70	24.0	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	23	70	24.4	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	24	70	24.8	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	25	70	25.2	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	26	70	25.6	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	27	70	26.0	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	28	70	23.4	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	29	70	24.0	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	30	70	24.4	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	31	70	24.8	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	32	70	25.2	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	33	70	25.6	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	34	70	26.0	148	32.1	82	09	15			X	X	RS5
PRUDHOE BAY	35	70	24.4	148	35.1	82	09	15			X	X	RS5
PRUDHOE BAY	36	70	25.2	148	35.1	82	09	15			X	X	RS5
PRUDHOE BAY	37	70	25.8	148	35.1	82	09	15			X	X	RS5
PRUDHOE BAY	38	70	26.4	148	35.1	82	09	15			X	X	RS5
PRUDHOE BAY	39	70	25.0	148	36.9	82	09	15			X	X	RS5
PRUDHOE BAY	40	70	25.6	148	36.9	82	09	15			X	X	RS5
PRUDHOE BAY	41	70	26.2	148	36.9	82	09	15			X	X	RS5
PRUDHOE BAY	42	70	25.2	148	38.7	82	09	15			X	X	RS5

BOTTLE/CTD DATA SET NUMBER: 82-0047
YEAR:1982 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OLIKTOK PT		70 31.2	149 51.6*	82 07 *			X		X	NB		
OLIKTOK PT		70 31.2	149 51.6	82 08			X		X	NB		
OLIKTOK PT		70 31.2	149 51.6	82 09			X		X	NB		

* Central location of survey; nominal date.

BOTTLE/CTD DATA SET NUMBER: 82-0048
YEAR:1982 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY		70 24.	148 32.*	82 06*			X		X			
PRUDHOE BAY		70 24.	148 32.	82 07			X		X			
PRUDHOE BAY		70 24.	148 32.	82 08			X		X			
PRUDHOE BAY		70 24.	148 32.	82 09			X		X			

* Nominal locations, dates.

BOTTLE/CTD DATA SET NUMBER: 83-0004A
YEAR:1983 VESSEL/AGENCY: CESAR, FSRC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
OFF ELLESMERE IS.	A1	81	24.28	97	48.43	83	04	25	16	433		X		X	GLDL		
OFF ELLESMERE IS.	A2	81	4.00	95	43.00	83	04	25	17	456		X		X	GLDL		
OFF ELLESMERE IS.	A3	81	49.16	96	8.51	83	04	26	22	310		X		X	GLDL		
OFF ELLESMERE IS.	A4	81	32.50	92	54.00	83	04	27	00	469		X		X	GLDL		
OFF ELLESMERE IS.	A5	80	50.00	89	48.00	83	04	25	19	496		X		X	GLDL		
OFF ELLESMERE IS.	A6	81	24.00	93	26.00	83	04	26	23	493		X		X	GLDL		
OFF ELLESMERE IS.	B1	82	30.57	92	26.07	83	04	24	15	425		X		X	GLDL		
OFF ELLESMERE IS.	B2	82	23.76	91	21.00	83	04	24	16	292		X		X	GLDL		
OFF ELLESMERE IS.	B2	82	23.88	91	22.69	83	04	28	22	289		X		X	GLDL		
OFF ELLESMERE IS.	B3	82	14.93	90	7.32	83	04	24	17	154		X		X	GLDL		
OFF ELLESMERE IS.	B4	82	10.32	89	23.38	83	04	24	17	67		X		X	GLDL		
OFF ELLESMERE IS.	B5	82	9.11	89	13.67	83	04	24	19	158		X		X	GLDL		
OFF ELLESMERE IS.	B6	82	5.67	88	45.18	83	04	23	23	130		X		X	GLDL		
OFF ELLESMERE IS.	D0	83	13.78	87	4.37	83	04	24	23	490		X		X	GLDL		
OFF ELLESMERE IS.	D1	83	6.33	86	44.30	83	04	24	22	294		X		X	GLDL		
OFF ELLESMERE IS.	D3	82	57.57	85	42.10	83	04	25	01	253		X		X	GLDL		
OFF ELLESMERE IS.	D4	82	44.88	84	36.31	83	04	26	19	315		X		X	GLDL		
OFF ELLESMERE IS.	E1	83	19.98	84	53.27	83	04	27	19	493		X		X	GLDL		
OFF ELLESMERE IS.	E2	82	59.19	82	7.55	83	04	27	18	270		X		X	GLDL		
OFF ELLESMERE IS.	E3	83	7.24	83	35.33	83	04	27	18	247		X		X	GLDL		
OFF ELLESMERE IS.	E4	82	58.06	82	35.92	83	04	27	16	387		X		X	GLDL		
OFF ELLESMERE IS.	E5	82	45.97	82	4.45	83	04	27	15	385		X		X	GLDL		
OFF ELLESMERE IS.	F1	83	48.83	76	14.05	83	04	28	15	495		X		X	GLDL		
OFF ELLESMERE IS.	F2	83	45.16	76	8.84	83	04	28	16	320		X		X	GLDL		
OFF ELLESMERE IS.	F3	83	30.82	75	42.39	83	04	28	17	233		X		X	GLDL		
OFF ELLESMERE IS.	F4	83	20.41	75	23.88	83	04	28	18	142		X		X	GLDL		
OFF ELLESMERE IS.	102	85	13.90	102	39.30	83	04	15	03	1500		X		X	GLDL		
OFF ELLESMERE IS.	103	84	25.80	95	53.70	83	04	15	01	1500		X		X	GLDL		
OFF ELLESMERE IS.	105	84	0.60	91	44.60	83	04	14	19	1500		X		X	GLDL		
OFF ELLESMERE IS.	106	83	33.10	88	50.40	83	04	14	16	1500		X		X	GLDL		
OFF ELLESMERE IS.	107	83	0.30	86	48.50	83	04	13	18	290		X		X	GLDL		
OFF ELLESMERE IS.	201	83	40.70	113	6.00	83	04	16	16	1500		X		X	GLDL		
OFF ELLESMERE IS.	202	82	40.70	105	15.30	83	04	13	02	1500		X		X	GLDL		
OFF ELLESMERE IS.	203	82	18.50	102	40.40	83	04	13	00	1500		X		X	GLDL		
OFF ELLESMERE IS.	204	81	54.60	101	3.90	83	04	12	23	508		X		X	GLDL		
OFF ELLESMERE IS.	205	81	29.70	100	24.30	83	04	16	20	497		X		X	GLDL		
OFF ELLESMERE IS.	301	86	33.00	109	40.00	83	04	15	15	1500		X		X	GLDL		
OFF ELLESMERE IS.	302	86	9.80	110	53.20	83	04	15	18	1150		X		X	GLDL		
OFF ELLESMERE IS.	303	85	34.30	110	7.60	83	04	15	21	1350		X		X	GLDL		
OFF ELLESMERE IS.	304	85	19.50	110	11.80	83	04	15	22	1500		X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0005
YEAR:1983 VESSEL/AGENCY: ASL,FSRC

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
	E07	74	57.30	123	47.60	83	03	26	21	488	488	X		X	GLDL		
	E08	75	13.80	125	49.00	83	03	26	20	397	397	X		X	GLDL		
	E09	75	49.40	129	28.40	83	03	26	17	1480	1480	X		X	GLDL		
PR GUS AD SEA	P02	78	49.30	107	52.20	83	03	27	21	394	394	X		X	GLDL		
PR GUS AD SEA	P03	79	3.20	109	26.60	83	03	27	20	465	465	X		X	GLDL		
CANADA BASIN	P04	79	19.90	112	15.50	83	03	27	18	546	546	X		X	GLDL		

BOTTLE/CTD DATA SET NUMBER: 83-0006
YEAR:1983 VESSEL/AGENCY: SAI, DISCOVERER

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	01	70 41.00	162 45.50	83 08 12		42	X		X	CTD		
NE CHUKCHI	02	70 34.30	162 32.60	83 08 13		39	X		X	CTD		
NE CHUKCHI	03	70 28.20	162 27.20	83 08 14		30	X		X	CTD		
NE CHUKCHI	04	70 23.00	162 18.50	83 08 14		22	X		X	CTD		
NE CHUKCHI	05	70 20.10	162 12.70	83 08 14		17	X		X	CTD		
NE CHUKCHI	06	70 16.60	162 8.10	83 08 14		13	X		X	CTD		
NE CHUKCHI	07	70 45.70	162 4.50	83 08 14		43	X		X	CTD		
NE CHUKCHI	08	70 40.00	161 52.30	83 08 14		42	X		X	CTD		
NE CHUKCHI	09	70 36.20	161 47.60	83 08 14		39	X		X	CTD		
NE CHUKCHI	10	70 31.70	161 42.00	83 08 14		25	X		X	CTD		
NE CHUKCHI	11	70 27.30	161 33.80	83 08 14		23	X		X	CTD		
NE CHUKCHI	12	70 25.70	161 33.40	83 08 14		20	X		X	CTD		
NE CHUKCHI	13	70 23.50	161 25.80	83 08 14		17	X		X	CTD		
NE CHUKCHI	14	70 21.80	161 24.10	83 08 14		15	X		X	CTD		
NE CHUKCHI	15	70 23.30	161 25.60	83 08 14		17	X		X	CTD		
NE CHUKCHI	16	70 47.90	161 22.60	83 08 15		46	X		X	CTD		
NE CHUKCHI	17	70 41.70	161 12.00	83 08 15		43	X		X	CTD		
NE CHUKCHI	18	70 36.50	161 3.30	83 08 15		35	X		X	CTD		
NE CHUKCHI	19	70 39.50	161 11.30	83 08 15		37	X		X	CTD		
NE CHUKCHI	20	70 33.50	161 3.00	83 08 15		31	X		X	CTD		
NE CHUKCHI	21	70 29.60	160 55.10	83 08 15		22	X		X	CTD		
NE CHUKCHI	22	70 27.50	160 48.50	83 08 15		17	X		X	CTD		
NE CHUKCHI	23	70 26.60	160 44.10	83 08 15		15	X		X	CTD		
NE CHUKCHI	24	70 48.00	160 39.00	83 08 15		47	X		X	CTD		
NE CHUKCHI	25	70 49.60	160 47.00	83 08 15		49	X		X	CTD		
NE CHUKCHI	26	70 43.10	160 34.40	83 08 15		45	X		X	CTD		
NE CHUKCHI	27	70 38.40	160 26.10	83 08 15		24	X		X	CTD		
NE CHUKCHI	28	70 30.50	160 20.60	83 08 16		21	X		X	CTD		
NE CHUKCHI	29	70 33.60	160 17.50	83 08 16		15	X		X	CTD		
NE CHUKCHI	30	70 59.70	159 46.40	83 08 16		79	X		X	CTD		
NE CHUKCHI	31	70 54.90	159 36.90	83 08 16		49	X		X	CTD		
NE CHUKCHI	32	70 53.00	159 33.50	83 08 16		34	X		X	CTD		
NE CHUKCHI	33	70 51.40	159 27.80	83 08 16		25	X		X	CTD		
NE CHUKCHI	34	71 6.20	159 12.20	83 08 16		84	X		X	CTD		
NE CHUKCHI	35	71 3.50	159 9.80	83 08 16		68	X		X	CTD		
NE CHUKCHI	36	71 1.90	159 5.30	83 08 16		56	X		X	CTD		
NE CHUKCHI	37	70 59.80	159 1.40	83 08 16		35	X		X	CTD		
NE CHUKCHI	38	70 58.20	158 59.60	83 08 16		31	X		X	CTD		
NE CHUKCHI	39	70 57.40	158 57.20	83 08 16		27	X		X	CTD		
NE CHUKCHI	40	70 56.40	158 56.50	83 08 16		20	X		X	CTD		
NE CHUKCHI	41	70 55.70	158 55.60	83 08 16		15	X		X	CTD		
NE CHUKCHI	42	70 56.70	158 57.90	83 08 16		17	X		X	CTD		
NE CHUKCHI	43	71 0.50	159 1.30	83 08 16		38	X		X	CTD		
NE CHUKCHI	44	71 6.30	159 8.40	83 08 17		88	X		X	CTD		
NE CHUKCHI	45	71 13.50	158 26.40	83 08 17		97	X		X	CTD		
NE CHUKCHI	46	71 5.40	158 30.60	83 08 17		32	X		X	CTD		
NE CHUKCHI	47	71 1.30	158 20.80	83 08 17		28	X		X	CTD		
NE CHUKCHI	48	70 58.90	158 17.30	83 08 17		24	X		X	CTD		
NE CHUKCHI	49	70 56.60	158 8.80	83 08 17		20	X		X	CTD		
NE CHUKCHI	50	70 54.80	158 10.10	83 08 17		18	X		X	CTD		
NE CHUKCHI	51	70 52.40	158 6.70	83 08 17		16	X		X	CTD		
NE CHUKCHI	52	70 52.60	158 5.30	83 08 17		16	X		X	CTD		
NE CHUKCHI	53	70 51.90	158 5.10	83 08		14	X		X	CTD		
NE CHUKCHI	54	71 20.20	158 19.10	83 08		17	X		X	CTD		
NE CHUKCHI	55	71 16.40	158 12.40	83 08		110	X		X	CTD		
NE CHUKCHI	56	71 17.60	158 9.20	83 08		117	X		X	CTD		
NE CHUKCHI	57	71 12.70	158 4.90	83 08		50	X		X	CTD		
NE CHUKCHI	58	71 11.20	158 1.70	83 08 18		47	X		X	CTD		
NE CHUKCHI	59	71 6.60	157 56.90	83 08 18		40	X		X	CTD		
NE CHUKCHI	60	71 4.20	157 50.30	83 08 18		35	X		X	CTD		
NE CHUKCHI	61	71 2.70	157 49.70	83 08 18		30	X		X	CTD		
NE CHUKCHI	62	71 0.20	157 44.30	83 08 18		24	X		X	CTD		
NE CHUKCHI	63	70 58.50	157 41.50	83 08 18		21	X		X	CTD		

NE CHUKCHI	64	70	57.20	157	39.80	83	08	18		18	X		X	CTD
NE CHUKCHI	65	70	56.30	157	38.60	83	08	18		16	X		X	CTD
NE CHUKCHI	66	71	3.00	157	20.00	83	08	18		17	X		X	CTD
NE CHUKCHI	67	71	4.70	157	21.50	83	08	18		26	X		X	CTD
NE CHUKCHI	68	71	6.30	157	23.80	83	08	18		34	X		X	CTD
NE CHUKCHI	69	71	7.70	157	27.30	83	08	18		39	X		X	CTD
NE CHUKCHI	70	71	3.40	159	7.00	83	08	19		66	X		X	CTD
NE CHUKCHI	71	71	4.10	159	4.20	83	08	19		61	X		X	CTD
NE CHUKCHI	72	70	59.50	159	1.80	83	08	19		35	X		X	CTD
NE CHUKCHI	73	70	58.70	159	0.20	83	08	19		33	X		X	CTD
NE CHUKCHI	74	70	57.30	158	58.30	83	08	19		27	X		X	CTD
NE CHUKCHI	75	70	56.40	158	56.40	83	08	20		22	X		X	CTD
NE CHUKCHI	76	70	46.60	160	44.00	83	08	21		47	X		X	CTD
NE CHUKCHI	77	70	43.30	160	34.40	83	08	21		44	X		X	CTD
NE CHUKCHI	78	70	38.10	160	25.70	83	08	21		24	X		X	CTD
NE CHUKCHI	79	70	35.20	160	21.40	83	08	21		20	X		X	CTD
NE CHUKCHI	80	70	33.70	160	18.00	83	08	21		15	X		X	CTD
NE CHUKCHI	81	70	25.90	160	46.90	83	08	21		14	X		X	CTD
NE CHUKCHI	82	70	27.10	160	49.40	83	08	21		17	X		X	CTD
NE CHUKCHI	83	70	30.80	160	58.90	83	08	21		25	X		X	CTD
NE CHUKCHI	84	70	34.20	160	58.70	83	08	21		31	X		X	CTD
NE CHUKCHI	85	70	38.90	161	11.50	83	08	21		37	X		X	CTD
NE CHUKCHI	86	70	43.30	161	18.40	83	08	21		42	X		X	CTD
NE CHUKCHI	87	70	45.70	161	20.20	83	08	21		43	X		X	CTD

BOTTLE/CTD DATA SET NUMBER: 83-0011
YEAR:1983 VESSEL/AGENCY: SAI, SURVEYOR

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
NE CHUKCHI	1	70	57.	158	40.8	83	09	22	18	13		X		X	CTD		
NE CHUKCHI	2	70	58.8	158	37.	83	09	22	21	15		X		X	CTD		
NE CHUKCHI	3	70	55.9	158	34.	83	09	22	22	15		X		X	CTD		
NE CHUKCHI	4	70	54.2	158	35.	83	09	22	23	11		X		X	CTD		
NE CHUKCHI	5	70	55.8	158	37.4	83	09	23	00	15		X		X	CTD		
NE CHUKCHI	6	70	57.0	158	41.1	83	09	23	01	15		X		X	CTD		
NE CHUKCHI	7	70	57.6	158	42.6	83	09	23	01	13		X		X	CTD		

BOTTLE/CTD DATA SET NUMBER: 83-0012
YEAR:1983 VESSEL/AGENCY: HARDING LAWSON, EXXON

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
ALASKAN SHELF		71	1.64	152	39.47	83	02	19					X				
ALASKAN SHELF		71	1.64	152	39.47	83	02	20					X				
ALASKAN SHELF		71	1.64	152	39.47	83	02	21					X				
ALASKAN SHELF		71	1.92	152	47.55	83	02	25					X				
ALASKAN SHELF		71	1.92	152	47.55	83	02	26					X				
ALASKAN SHELF		71	2.21	152	43.46	83	02	22					X				
ALASKAN SHELF		71	2.21	152	43.46	83	02	23					X				

BOTTLE/CTD DATA SET NUMBER: 83-0013
YEAR:1983 VESSEL/AGENCY: NORTEC, ARCO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	A	70 24.95	148 31.80*	83 04*		3.6	X		X	HYDR		
PRUDHOE BAY	B	70 24.95	148 32.30	83 04		3.7	X		X	HYDR		
PRUDHOE BAY	C	70 26.20	148 36.30	83 04		5.7	X		X	HYDR		

* Nominal dates; central locations.

BOTTLE/CTD DATA SET NUMBER: 83-0020
YEAR:1983 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY		70 19.8	148 23.4*	83 08 *			X		X	NB		
PRUDHOE BAY		70 19.8	148 23.4	83 09			X		X	NB		

* Central location; nominal dates.

BOTTLE/CTD DATA SET NUMBER: 83-0022
YEAR:1983 VESSEL/AGENCY: NORTEC, ARCO

AREA	STN	LAT DEG MIN	LON DEG MIN	DATE YR MO DY HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT HR	NO
PRUDHOE BAY	A	70 24.95	148 31.80*	83 08*			X		X	HYDR		
PRUDHOE BAY	B	70 24.95	148 32.30	83 09			X		X	HYDR		
PRUDHOE BAY	C	70 26.20	148 36.30	83 09			X		X	HYDR		

*Nominal dates; central location.

11.2 CURRENT METER DATA

The listings contain the following information:

AREA	General area of station.
STN	Station number; wherever possible it is the station number assigned in the original data source. Multiple meters are differentiated as 1.1, 1.2, 1.3, for example.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length, days of both speed and direction data.
DT (MN)	Sampling rate in minutes.
DEPTHS-INSTR/WATER	Instrument and water depth, in metres.
INSTR TYPE	Instrument type:

AAND - Aanderaa RCM-4 or RCM-5
AMF - AMF vector averaging
BR - Braincon meter
CUSH - Cushing electromagnetic
ENDE - Endeco
GEOD - Geodyne
GO - General Oceanics
HYDR - Hydrowerstatten
HYPR - Hydro Products
MARA - Marine Advisors
M-MC - Marsh McBirney electromagnetic
NB - Neil Brown acoustic current meter
RICH - Richardson
SETR - Sea-Track current meter

ADDIT SENSOR — Other parameters measured - pressure, temperature, conductivity. Each measurement is qualified by one of the following:

X - measurements of this parameter were made
CA - possible calibration problems
S - suspect readings
C - constant readings
O - zero or obviously bad readings

Blank entries indicate unavailable or inapplicable data.
? implies suspect data, but the only/best available.

CURRENT METER DATA SET NUMBER: 50-0007
YEAR:1950 VESSEL/AGENCY: SOVIET ICE STATION SOVIET ICE STATION NP-2

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
CHUKCHI AB. PL.		76 35.	170 00.	50 05 03	50 05 20	18			10		
CHUKCHI AB. PL.		76 35.	170 00.	50 05 03	50 05 20	18			75		
CHUKCHI AB. PL.		76 35.	170 00.	50 05 03	50 05 20	18			150		
CHUKCHI AB. PL.		76 35.	170 00.	50 05 03	50 05 20	18			1000		
CHUKCHI PLATEAU		78 20.	167 00.	50 07 04	50 07 10				425		
		79 00.	168 00.	50 07 30	50 08 15				10		
		79 00.	168 00.	50 07 30	50 08 15				75		
		79 00.	168 00.	50 07 30	50 08 15				150		
		79 00.	168 00.	50 07 30	50 08 15				1000		
CANADA BASIN		79 30.	159 30.	50 10 02	50 10 18				10		
CANADA BASIN		79 30.	159 30.	50 10 02	50 10 18				75		
CANADA BASIN		79 30.	159 30.	50 10 02	50 10 18				150		
CANADA BASIN		79 30.	159 30.	50 10 02	50 10 18				1000		
CANADA BASIN		80 30.	162 00.	51 01 09	51 01 25				10		
CANADA BASIN		80 30.	162 00.	51 01 09	51 01 25				75		
CANADA BASIN		80 30.	162 00.	51 01 09	51 01 25				150		
CANADA BASIN		80 30.	162 00.	51 01 09	51 01 25				1000		
CANADA BASIN		81 30.	161 00.	51 03 13	51 03 29				10		
CANADA BASIN		81 30.	161 00.	51 03 13	51 03 29				75		
CANADA BASIN		81 30.	161 00.	51 03 13	51 03 29				150		
CANADA BASIN		81 30.	161 00.	51 03 13	51 03 29				1000		

CURRENT METER DATA SET NUMBER: 54-0014
YEAR:1954 VESSEL/AGENCY: SOVIET ICE STATION NP-3

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
LOMONOSOV RDG		88 40.	70 00.	54 11 07	54 11 19	12			1000		
LOMONOSOV RDG		88 40.	70 00.	55 01 12	55 01 20	7			1000		

CURRENT METER DATA SET NUMBER: 54-0015
YEAR:1954 VESSEL/AGENCY: SOVIET ICE STATION NP-4

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
MENDELEYEV RDG		80 30.	179 00.	54 12 11	54 12 16	6			1000		
		81 30.	177 00.	55 07 08	55 07 15	7			1000		
MEND. AB. PLAIN		82 30.	174 00.	54 07 23	54 08 01	8			1000		
MEND. AB. PLAIN		82 30.	177 00.	55 08 30	55 09 06	7			1000		
		85 00.	180 00.	55 11 13	55 11 19	6			1000		
MAKAROV BASIN		86 30.	176 00.	55 12 24	56 01 04	9			1000		

CURRENT METER DATA SET NUMBER: 63-0012
YEAR:1963 VESSEL/AGENCY: U.S. ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
CANADA BASIN		82 32.	157 10.	63 09 15	63 09 15		3790	3790		
CANADA BASIN		83 03.	157 58.	63 08 03	63 09 21		100			
CANADA BASIN		83 03.	157 58.	63 08 03	63 09 21		200			
CANADA BASIN		83 03.	157 58.	63 08 03	63 09 21		500			

CURRENT METER DATA SET NUMBER: 65-0013
YEAR:1965 VESSEL/AGENCY: U.S. ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
CANADA BASIN		75 40.	141 00.	65 08 16	65 08 16		3795	3995		
CANADA BASIN		75 50.	140 00.	65 08 20	65 08 20		3790	3790		

CURRENT METER DATA SET NUMBER: 67-0012
YEAR:1967 VESSEL/AGENCY: ICE ISLAND T-3,LAMONT

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
MENDELEYEV RIDGE		79 29.	171 09.	67 05 15	67 05 15		2653	2653		
MENDELEYEV RIDGE		79 31.	171 30.	67 05 11	67 05 11		2381	2381		
MENDELEYEV RIDGE		79 33.	174 25.	67 04 28	67 04 28		2047	2047		
MENDELEYEV RIDGE		79 36.	173 58.	67 05 01	67 05 01		2013	2013		

CURRENT METER DATA SET NUMBER: 70-0001
YEAR:1970 VESSEL/AGENCY: AIDJEX PILOT

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
CANADA BASIN		72 00.	144 00.	70 03 12			10			
CANADA BASIN		72 00.	144 00.	70 03 12			40			
CANADA BASIN		72 00.	144 00.	70 03 12			150			
CANADA BASIN		72 00.	144 00.	70 03 12			500			
CANADA BASIN		72 30.	135 00.	70 03 12			10		BR	
CANADA BASIN		72 30.	135 00.	70 03 12			40			
CANADA BASIN		72 30.	135 00.	70 03 12			150			
CANADA BASIN		72 30.	135 00.	70 03 12			500			

CURRENT METER DATA SET NUMBER: 70-0022
YEAR:1970 VESSEL/AGENCY: ICE ISLAND T-3

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
ALPHA RIDGE	A	85 00.	95 00.	70 11 25	71 02 03	70	1	40		MARA	
ALPHA RIDGE	A	85 00.	95 00.	70 11 25	71 02 03	87	1	70		MARA	
ALPHA RIDGE	B	85 00.	95 00.	70 11 25	71 02 03	0	1	40		MARA	
ALPHA RIDGE	C	85 00.	95 00.	70 11 25	71 02 03	70	1	40		MARA	
ALPHA RIDGE	C	85 00.	95 00.	70 11 25	71 02 03	87	1	70		MARA	

CURRENT METER DATA SET NUMBER: 71-0003
YEAR:1971 VESSEL/AGENCY: AIDJEX '71

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
CANADA BASIN		74 04.	131 23.	71 03 16	71 04 01		10	50		AAND	
CANADA BASIN		74 04.	131 23.	71 03 16	71 04 01		20	10		BR	
CANADA BASIN		74 04.	131 23.	71 03 17	71 04 01		20	10		BR	
CANADA BASIN		74 04.	131 23.	71 03 17	71 04 01		20	150		BR	
CANADA BASIN		74 04.	131 23.	71 03 17	71 04 02		20	300		BR	
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			5			
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			7			
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			11			
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			19			
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			32			
CANADA BASIN		74 04.	131 23.	71 03 21	71 04 07			75			

CURRENT METER DATA SET NUMBER: 71-0022
YEAR:1971 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
OLIKTOK		70 32.	149 52.	71 08 28	71 09 01	7	10	1.5	2.5	AAND	

CURRENT METER DATA SET NUMBER: 71-0024
YEAR:1971 VESSEL/AGENCY: APL,UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 30.	155 00.	71 08 01	71 08 13			10			
BARROW		71 30.	155 00.	71 08 01	71 08 13			20			

CURRENT METER DATA SET NUMBER: 72-0027
YEAR:1972 VESSEL/AGENCY: WEBSEC '72, GLACIER

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 38.2	154 46.1	72 08 07	72 08 22	15		25	54	GEOD	

CURRENT METER DATA SET NUMBER: 72-0029
YEAR:1972 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
OLIKTOK		70 32.	149 52.	72 08 11	72 09 18	38	10	2	3	AAND	

CURRENT METER DATA SET NUMBER: 72-0035
YEAR:1972 VESSEL/AGENCY: AIDJEX '72

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
CANADA BASIN	BD	75 15.	153 30.	72 03 12	72 04 11		10	30		AAND	
CANADA BASIN	BD	75 15.	153 30.	72 03 12	72 04 11		10	150		AAND	
CANADA BASIN	BD	75 15.	153 30.	72 03 12	72 04 11		10	500		AAND	
CANADA BASIN	BD	75 15.	153 30.	72 03 12	72 04 11		10	850		AAND	
CANADA BASIN	BH	76 00.	150 30.	72 03 12	72 04 11		10	30		BR	
CANADA BASIN	BH	76 00.	150 30.	72 03 12	72 04 11		10	150		AAND	
CANADA BASIN	JS	75 00.	149 30.	72 03 12	72 04 11		10	30		BR	
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			2			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			4			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			8			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			12			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			20			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			30			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			40			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			50			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			70			
CANADA BASIN	JS	75 00.	149 30.	72 03 15	72 04 26			100			
CANADA BASIN	JS	75 00.	149 30.	72 03 30	72 04 24			250			
CANADA BASIN	JS	75 00.	149 30.	72 04 01	72 04 24			345			

CURRENT METER DATA SET NUMBER: 73-0027
YEAR:1973 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
BARROW CANYON		71 30.	157 24.	73 04 18	73 08 17	120	20	96	150	AAND	X
BARROW CANYON		71 30.	157 24.	73 04 18	73 08 17	120	20	126	150	AAND	X

CURRENT METER DATA SET NUMBER: 76-0038
YEAR:1976 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	NAR1	70 38.7	147 09.0	76 03 28	76 04 19		10	27	AAND	
ALASKAN SHELF	NAR2	70 32.2	147 20.0	76 03 28	76 04 22		10	38	AAND	

CURRENT METER DATA SET NUMBER: 76-0039
YEAR:1976 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	OL	71 12.6	149 53.0	76 05 27	76 09 01		100	225		

CURRENT METER DATA SET NUMBER: 76-0041
YEAR:1976 VESSEL/AGENCY: U.S. GEOLOGICAL SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
STEFANSSON SD		70 24.	148 02.	76 07 31	76 09 22	53	5.5	5.5		

CURRENT METER DATA SET NUMBER: 77-0044
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	L01	71 31.1	152 11.3	77 03 29	77 04 06		78	192		
ALASKAN SHELF	L01	71 31.1	152 11.3	77 03 29	77 10 20		152	192		

CURRENT METER DATA SET NUMBER: 77-0045
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	L04	71 31.8	152 15.3	77 11 13	78 10 30	351 60	177	192	AAND	

CURRENT METER DATA SET NUMBER: 77-0052
YEAR:1977 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
SIMPSON LAGOON	SC	70 33.1	149 46.2	77 08 08	77 09 12			3.			
SIMPSON LAGOON	ST	70 24.	148 33.	77 08 13	77 09 16			.8		AAND	

CURRENT METER DATA SET NUMBER: 78-0032
YEAR:1978 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT .8N	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	L05	71 17.	150 44.1	78 03 13	78 10 07	208	20	64	99		
ALASKAN SHELF	L06	71 17.7	150 37.9	78 03 11	78 09 04	171	20	68	203		
ALASKAN SHELF	L06	71 17.7	150 37.9	78 03 11	78 09 14	187	20	188	203		

CURRENT METER DATA SET NUMBER: 78-0033
YEAR:1978 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
SIMPSON LAGOON	AI	70 28.	148 13.06	78 07 24	78 09 23			3.9			
SIMPSON LAGOON	BP	70 29.07	149 08.04	78 07 24	78 08 29			3.3			
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 05 14	78 05 26			4.9			
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 05 26	78 07 26			4.9			
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 07 26	78 08 30			4.9			
SIMPSON LAGOON	EM	70 31.07	149 24.01	78 07 23	78 08 28			1.7			
SIMPSON LAGOON	NM	70 32.02	149 26.06	78 07 25	78 08 29			1.9			
SIMPSON LAGOON	SM	70 31.04	149 27.04	78 07 23	78 08 27			1.9			
SIMPSON LAGOON	ST	70 24.	148 33.	78 07 24	78 08 30			.8			
SIMPSON LAGOON	WM	70 32.04	149 29.29	78 07 23	78 08 28			2.8			
SIMPSON LAGOON	NSC	70 30.35	149 45.25	78 07 23	78 08 31			2.2			
SIMPSON LAGOON	OPSC	70 30.21	149 50.13	78 07 23	78 08 31			6.1			

CURRENT METER DATA SET NUMBER: 78-0034
YEAR:1978 VESSEL/AGENCY: TEXAS A&M UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
SIMPSON LAGOON		70 31.	149 27.	78 08 08	78 ? ?						

CURRENT METER DATA SET NUMBER: 78-0036
YEAR:1978 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	S	70 19.4	147 33.7	78 11 11	79 04 02			4.0			
ALASKAN SHELF	S	70 19.4	147 33.7	78 11 11	79 04 02			5.1			
ALASKAN SHELF	BN	70 16.	146 00.	78 11 11	79 03 21			5.2			
ALASKAN SHELF	BN	70 16.	146 00.	78 11 11	79 03 21			6.3			
ALASKAN SHELF	EC	70 26.02	148 46.	78 11 16	79 05 05			3.6			
ALASKAN SHELF	EC	70 26.02	148 46.	78 11 16	79 05 05			4.6			
ALASKAN SHELF	NI	70 23.6	147 33.1	78 11 12	79 05 09			3.1			
ALASKAN SHELF	OL	70 33.5	149 43.8	78 11 12	79 04 05			1.7			
ALASKAN SHELF	ON	70 38.0	148 50.0	78 11 13	79 03 27			5.2			
ALASKAN SHELF	ON	70 38.0	148 50.0	78 11 13	79 03 27			6.3			

CURRENT METER DATA SET NUMBER: 79-0040
YEAR:1979 VESSEL/AGENCY: U. WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	FL1	70 43.6	146 00.	79 02 22	79 07 22	149	60	39	59	AAND	
ALASKAN SHELF	FL1	70 43.6	146 00.	79 02 22	79 07 22	149	60	49	59	AAND	
ALASKAN SHELF	OL1	71 10.0	148 52.7	79 02 21	80 03 06	379	60	40	60	AAND	
ALASKAN SHELF	OL1	71 10.0	148 52.7	79 02 21	80 03 06	379	60	50	60	AAND	

CURRENT METER DATA SET NUMBER: 79-0042
YEAR:1979 VESSEL/AGENCY: SOHIO

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	TP1	70 27.2	148 14.9	79 04 06	79 08 02		30	6.7	8.2	AAND	X X
ALASKAN SHELF	TP2	70 25.5	148 15.6	79 04 09	79 08 02		30	4.0	5.5	AAND	X X

CURRENT METER DATA SET NUMBER: 79-0045
YEAR:1979 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	S	70 19.4	147 33.7	79 04 02	79 05 06			4.0			
ALASKAN SHELF	S	70 19.4	147 33.7	79 04 02	79 05 06			5.1			
ALASKAN SHELF	040	70 37.2	148 56.0	79 03 29	79 05 10			10.5			
ALASKAN SHELF	040	70 37.2	148 56.0	79 03 29	79 05 10			11.6			
ALASKAN SHELF	FB4	70 18.0	146 02.0	79 03 31	79 05 13			23.5			

CURRENT METER DATA SET NUMBER: 79-0046
YEAR:1979 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	S	70 19.4	147 33.7	79 05 06	79 11			3.1			
ALASKAN SHELF	S	70 19.4	147 33.7	79 05 15	79 11			4.0			
ALASKAN SHELF	EC	70 26.02	148 46.0	79 05 05	79 11			3.6			
ALASKAN SHELF	EC	70 26.02	148 46.0	79 05 05	79 11			4.6			
ALASKAN SHELF	MP	70 32.1	149 28.8	79 05 14	79 11			1.8			

CURRENT METER DATA SET NUMBER: 79-0050
YEAR:1979 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON,LOREX ICE STATION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
LOMONOSOV RIDGE	L1	89 10.6	141 30.2	79 04 06	79 05 13	37	10	1240	1440	AAND	
LOMONOSOV RIDGE	L1	89 10.6	141 30.2	79 04 06	79 05 16	40	10	1415	1440	AAND	
LOMONOSOV RIDGE	L2	89 24.6	136 38.7	79 04 06	79 05 09	33	10	3365	3565	AAND	

CURRENT METER DATA SET NUMBER: 79-0057
YEAR:1979 VESSEL/AGENCY: OSI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
PRUDHOE BAY		70 31.5	148 13.5	79 08 12	79 08 18	30		3	14	ENDE	
PRUDHOE BAY		70 31.5	148 13.5	79 08 12	79 10 08	6		6	14	SETR	X X X

CURRENT METER DATA SET NUMBER: 80-0038
YEAR:1980 VESSEL/AGENCY: UNIVERSITY OF ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	A1	70 38.25	151 42.5	80 08 03	81 07 13			2.9			
ALASKAN SHELF	A1	70 38.25	151 42.5	80 08 03	81 07 13			3.2			
ALASKAN SHELF	A2	70 40.25	151 42.5	80 08 03	80 09			3.2			
ALASKAN SHELF	A2	70 40.25	151 42.5	80 08 03	80 09			5.2			
ALASKAN SHELF	A3	70 42.25	151 42.5	80 08 03	80 09 03			3.1			
ALASKAN SHELF	A3	70 42.25	151 42.5	80 08 03	80 09 03			6.2			
ALASKAN SHELF	C1	70 33.8	150 54.9	80 08 05	80 09			1.3			
ALASKAN SHELF	C1	70 33.8	150 54.9	80 08 05	80 09			2.6			
ALASKAN SHELF	C2	70 35.3	150 54.8	80 08 04	80 09			6.2			
ALASKAN SHELF	C2	70 35.3	150 54.8	80 08 04	80 09			8.1			
ALASKAN SHELF	C3	70 37.3	150 54.9	80 08 04	80 09			8.8			
ALASKAN SHELF	C3	70 37.3	150 54.9	80 08 04	80 09			10.5			
ALASKAN SHELF	T1	70 33.1	150 14.4	80 08 02	80 09			2.2			
ALASKAN SHELF	T1	70 33.1	150 14.4	80 08 02	80 09			3.5			
ALASKAN SHELF	T2	70 35.25	150 14.4	80 08 02	80 09			3.0			
ALASKAN SHELF	T2	70 35.25	150 14.4	80 08 02	80 09			8.1			

T3	70	37.25	150	14.4	80	08	02	80	09				2.9		
T3	70	37.25	150	14.4	80	08	02	80	09				10.2		

CURRENT METER DATA SET NUMBER: 81-0035
YEAR:1981 VESSEL/AGENCY: OCSEAP

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
CHUKCHI SEA		70	37.6	160	08.2	81	08	11	81	09	02			05	15	GO	
CHUKCHI SEA		70	37.6	160	08.2	81	08	11	81	09	02			13	15	GO	
CHUKCHI SEA		71	19.5	156	45.3	81	08	07	81	09	07			17	19	AAND	
CHUKCHI SEA		71	23.5	156	50.9	81	08	07	81	09	08			21	82	AAND	
CHUKCHI SEA		71	23.5	156	50.9	81	08	07	81	09	08			67	82	AAND	

CURRENT METER DATA SET NUMBER: 81-0037
YEAR:1981 VESSEL/AGENCY: U.S. COAST GUARD

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF		70	53.	145	55.	81	04	09	81	08	01			40	188	AMF	
ALASKAN SHELF		70	53.	145	55.	81	04	09	81	08	01			150	188	AMF	
ALASKAN SLOPE		70	56.	146	01.	81	04	10	81	06	03			250	480	AMF	
ALASKAN SLOPE		70	56.	146	01.	81	04	10	81	08	01			40	480	AMF	
ALASKAN SLOPE		70	57.	146	02.	81	04	11	81	08	02			40	850	AMF	
ALASKAN SLOPE		70	57.	146	02.	81	04	11	81	08	02			250	850	AMF	

CURRENT METER DATA SET NUMBER: 81-0046
YEAR:1981 VESSEL/AGENCY: EXXON

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	NE1	70	23.3	147	54.1	81	03		81	03		3		3		SETR	
ALASKAN SHELF	NE2	70	23.3	147	54.1	81	07	17	81	08	24	38	6			SETR	X
ALASKAN SHELF	SW2	70	23.3	147	54.1	81	07	17	81	08	24	38	6			SETR	X

CURRENT METER DATA SET NUMBER: 81-0048
YEAR:1981 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	START YR	START MO	START DY	STOP YR	STOP MO	STOP DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
NE CHUKCHI		71	01.1	159	19.0	81	09	10	82	08	21		60	50	60	AAND	
NE CHUKCHI		71	01.1	159	19.0	81	09	10	82	08	21		60	54	60	AAND	
NE CHUKCHI		71	03.3	159	34.9	81	09	10	82	08	22		60	70	83	AAND	
NE CHUKCHI		71	03.3	159	34.9	81	09	10	82	08	22		60	76	83	AAND	
NE CHUKCHI		71	10.9	159	54.2	81	09	11	82	09	14		60	46	57	AAND	
NE CHUKCHI		71	10.9	159	54.2	81	09	11	82	09	14		60	51	57	AAND	

CURRENT METER DATA SET NUMBER: 81-0051
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
OLIKTOK		70 31.2	149 51.6?	81 08	81 09					ENDE			

? Central location of survey.

CURRENT METER DATA SET NUMBER: 81-0052
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
SAG DELTA		70 25.2	147 56.4?	81 08	81 09					AAND		X	X

? Central location of survey.

CURRENT METER DATA SET NUMBER: 82-0012
YEAR:1982 VESSEL/AGENCY: NORTEC

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
SAG DELTA	1	70 21.9	147 56.7	82 07 29	82 09 15				5.	NB			
SAG DELTA	2	70 22.5	147 49.9	82 07 29	82 09 17				7.	NB			
SAG DELTA	3	70 19.7	147 47.0	82 07 31	82 09 17				5.	NB			
SAG DELTA	4	70 18.3	147 48.8	82 07 31	82 09 17				1.5	NB			
SAG DELTA	5	70 21.4	147 59.0	82 07 30	82 09 17				1.5	NB			

CURRENT METER DATA SET NUMBER: 82-0014
YEAR:1982 VESSEL/AGENCY: SAI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
ANGUN LAGOON	1	69 56.7	142 24.7	82 07 25	82 09 12		5			NB			
ANGUN LAGOON	2	69 57.6	142 29.7	82 08 05	82 09 11		10			AAND			
ANGUN LAGOON	7	69 58.2	142 32.2	82 08 06	82 09 11		10			AAND			

CURRENT METER DATA SET NUMBER: 82-0033
YEAR:1982 VESSEL/AGENCY: NORTEC

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
TERN IS.		70 16.93	147 29.72	82 07 31	82 09 17		30	3.3	6.7	ENDE			

CURRENT METER DATA SET NUMBER: 82-0043
YEAR:1982 VESSEL/AGENCY: KINNETIC

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
PRUDHOE BAY	W	70 24.3	148 32.7	82 07 27	82 08 13	19 10	1	2	AAND	X	X	
PRUDHOE BAY	B	70 24.2	148 32.5	82 07 27	82 08 25	29 30	1	2	ENDE	X	X	
PRUDHOE BAY	E	70 24.4	148 29.7	82 07 27	82 08 04	8 10	2	3.3	AAND	X	X	

CURRENT METER DATA SET NUMBER: 82-0047
YEAR:1982 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
OLIKTOK		70 31.2	149 51.6?	82 07	82 09						X	X

? Central location of survey.

CURRENT METER DATA SET NUMBER: 83-0004
YEAR:1983 VESSEL/AGENCY: UNIVERSITY OF WASHINGTON, CESAR ICE CAMP

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
ALPHA RIDGE		85 36.0	110 47.6	83 04 05	83 05 11	10	100	1455	AAND			
ALPHA RIDGE		85 36.0	110 47.6	83 04 05	83 05 11	10	400	1455	AAND			
ALPHA RIDGE		85 36.0	110 47.6	83 04 05	83 05 11	10	1255	1455	AAND			
ALPHA RIDGE		85 36.0	110 47.6	83 04 05	83 05 11	10	1435	1455	AAND			
ALPHA RIDGE		85 52.7	112 14.4	83 04 08	83 05 13	10	388	1470	AAND			
ALPHA RIDGE		85 52.7	112 14.4	83 04 08	83 05 13	10	1445	1470	AAND			
ALPHA RIDGE		85 52.7	112 14.4	83 04 08	83 05 13	10	87.5	1470	AAND			
ALPHA RIDGE		85 56.6	109 57.6	83 04 07	83 05 09	10	107	1557	AAND			
ALPHA RIDGE		85 56.6	109 57.6	83 04 07	83 05 09	10	407	1557	AAND			
ALPHA RIDGE		85 56.6	109 57.6	83 04 07	83 05 09	10	1532	1557	AAND			

CURRENT METER DATA SET NUMBER: 83-0006
YEAR:1983 VESSEL/AGENCY: SAI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
ALASKAN SHELF	1	70 56.7	158 53.0	83 08 16	83 09		9	24	NB			
ALASKAN SHELF	4	71 02.6	159 04.5	83 08 19	83 09		22	59	NB			
ALASKAN SHELF	4	71 02.6	159 04.5	83 08 19	83 09		43	59	AAND			
ALASKAN SHELF	4	71 02.6	159 04.5	83 08 19	83 09		54	59	AAND			

CURRENT METER DATA SET NUMBER: 83-0020
YEAR:1983 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
PRUDHOE BAY		70 19.8	148 23.6?	83 08	83 09							X	X

? Central location of survey.

CURRENT METER DATA SET NUMBER: 83-0033
YEAR:1983 VESSEL/AGENCY: KINNETIC LAB.

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P	T	C
PRUDHOE BAY	B	70 24.20	148 31.5	83 07 22	83 09 15			1.5	3.	ENDE			
PRUDHOE BAY	E	70 24.05	148 31.0	83 07 22	83 09 03			2.7	3.	AAND		X	X
PRUDHOE BAY	E	70 24.05	148 31.0	83 09 03	83 09 15			2.7	3.	AAND		X	X
PRUDHOE BAY	T	70 24.75	148 31.5	83 07 22	83 08 10			4.0	4.3	AAND		X	X
PRUDHOE BAY	T	70 24.75	148 31.5	83 08 10	83 09 04			4.0	4.3	AAND		X	X
PRUDHOE BAY	T	70 24.75	148 31.5	83 09 04	83 09 15			4.0	4.3	AAND		X	X
PRUDHOE BAY	W	70 24.08	148 32.0	83 07 22	83 08 10			2.4	2.7	AAND		X	X
PRUDHOE BAY	W	70 24.08	148 32.0	83 08 10	83 09 02			2.4	2.7	AAND		X	X
PRUDHOE BAY	W	70 24.08	148 32.0	83 09 02	83 09 15			2.4	2.7	AAND		X	X

11.3 WATER LEVEL DATA

The listings contain the following information:

AREA	Area
STN	Station number; generally as assigned by the originating agency.
LAT, LONG	In degrees and minutes.
START/STOP	Year, month and day instrument recorded over.
EFF LEN	Effective record length.
DT (MN)	Sampling rate in minutes.
INST & WATER DPTH	In metres.
INSTR TYPE	AAND - Aanderaa AMS - Applied Microsystems BASS - Bass Engineering optical lever LEOP - Leopold Stevens MECH - shore-based gauge, temporary or permanent OTT - Ott gauge, either float or poteniometric SDAT - SeaData STAF - Tide staff STEV - Stevens
ADDIT SENSOR	Parameters measured qualified by: X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings O - zero or obviously bad readings

Blank entries indicate unavailable or inappropriate data.
? signifies data which are either unknown or may be suspect. For example, a location which plots on land.

WATER LEVEL DATA SET NUMBER: 1883-0001
YEAR:1883 VESSEL/AGENCY: INTERNATIONAL POLAR EXPEDITION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 17.7	156 40.?	83 02 26	83 06 10?	104	30				

?156 47. in National Ocean Service files

WATER LEVEL DATA SET NUMBER: 05-0001
YEAR:1905 VESSEL/AGENCY: PEARY POLAR EXPEDITION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
N ELLESMERE IS		82 27.	61 21.	05 11 04	05 12 02	29	60			STAF	

WATER LEVEL DATA SET NUMBER: 06-0001
YEAR:1906 VESSEL/AGENCY: ANGLO-AMERICAN EXPEDITION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
FLAXMAN IS.		70 11.	145 50.?	06 10 21	06 12 12	58	60			STAF	

? 146 03. in National Ocean Service files.

WATER LEVEL DATA SET NUMBER: 08-0004
YEAR:1908 VESSEL/AGENCY: PEARY POLAR EXPEDITION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
N. GREENLAND		82 21.	55 30.	08 01 16	08 02 13	29	60			STAF	
ELLESMERE IS.		82 27.	61 21.	08 11 13	09 05 23	191	60			STAF	
ELLESMERE IS.		83 05.	69 35.	08 11 16	08 12 14	29	60			STAF	
N.GREENLAND		83 37.	32 40.	09 05 13	09 05 23	10				STAF	

WATER LEVEL DATA SET NUMBER: 14-0002
YEAR:1914 VESSEL/AGENCY: CAN ARCTIC EXPEDITION

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P T C
DEMARCATION PT		69 41.	141 12.25	14 05 09	14 05 12	4	15				
COLLINSON PT.		69 59.	144 49.75	14 01 16	14 05 03						
MARTIN PT.		70 07.	143 16.	14 03 19	14 03 21	3					
CAPE ISACHSEN		79 16.	105 20.	16 06 02	16 06 03	1	15			STAF	

WATER LEVEL DATA SET NUMBER: 45-0001
YEAR:1945 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
DEASE INLET		70 59.5	155 36.3	45 09 06	45 09 14				
ELSON LAGOON		71 23.1	156 26.8	45 08 01	45 09 30				
POINT BARROW		71 19.7	156 40.9	45 08 02	45 08 09				

WATER LEVEL DATA SET NUMBER: 47-0002
YEAR:1947 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
PEARD BAY		70 50.1	158 29.0	47 07 22	47 09 11				

WATER LEVEL DATA SET NUMBER: 48-0008
YEAR:1948 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
BARTER ISLAND		70 08.2	143 35.3	48 07 16	48 09 04				

WATER LEVEL DATA SET NUMBER: 49-0004
YEAR:1949 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
TIGVARIAK IS.		70 13.1	147 10.4	49 07 17	49 08 17?				

WATER LEVEL DATA SET NUMBER: 50-0009
YEAR:1950 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
COLLINSON PT.		69 59.6	144 54.0	50 08 30	50 09 08				
FLAXMAN IS.		70 11.1	146 03.0	50 08 01	50 09 01				
ELSON LAGOON		71 21.7	156 32.6	50 09 13	50 09 18				

WATER LEVEL DATA SET NUMBER: 51-0010
YEAR:1951 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
OLIKTOK		70 30.7	149 52.0	51 07 18	51 ? ?						
PITT POINT		70 55.4	153 07.3	51 07 10	51 ? ?						

WATER LEVEL DATA SET NUMBER: 52-0012
YEAR:1952 VESSEL/AGENCY: U.S. COAST & GEODETIC SURVEY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
DEMARCATION PT		69 40.9	141 12.9	52 08 01	52 09 01						
HARRISON BAY		70 34.8	152 02.7	52 08 04	52 ? ?						

WATER LEVEL DATA SET NUMBER: 55-0015
YEAR:1955 VESSEL/AGENCY: SCRIPPS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 21.6	156 21.8	55 08 ?	55 08 ?	29				LEOP	
BARROW		71 21.6	156 21.8	55 12 ?	55 12 ?	7				LEOP	

WATER LEVEL DATA SET NUMBER: 56-0011
YEAR:1956 VESSEL/AGENCY: SCRIPPS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 21.6	156 21.8	56 07 22	58 12 ?					LEOP	

WATER LEVEL DATA SET NUMBER: 60-0016
YEAR:1960 VESSEL/AGENCY: CHS?

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
ALERT		82 30.	62 19.	60 08 01	66 06 30						
ALERT		82 30.	62 19.	67 08 01	77 02 28						

WATER LEVEL DATA SET NUMBER: 67-0010
YEAR:1967 VESSEL/AGENCY: ICE STATIONS, McGILL UNIVERSITY

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
DISRAELI FJORD		83 00.	74 00.	67 06	67 06 *				

* Nominal location and dates.

WATER LEVEL DATA SET NUMBER: 68-0008
YEAR:1968 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
KLEYBOLT PEN.		81 31.	92 30.	68 05 01	68 06 30				

WATER LEVEL DATA SET NUMBER: 68-0016
YEAR:1968 VESSEL/AGENCY: DEF.RES.BD.

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
DISRAELI FJORD		82 53.	73 30.	68 05 01	68 07 31				

WATER LEVEL DATA SET NUMBER: 69-0026
YEAR:1969 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
BARROW		71 21.6	156 21.8	69 09 ?	72 ? ?				

WATER LEVEL DATA SET NUMBER: 71-0036
YEAR:1971 VESSEL/AGENCY: CHS

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
DISRAELI FJORD		82 53.	73 30.	71 06 01	71 07 31 *				

* See note in Appendix 1.

WATER LEVEL DATA SET NUMBER: 75-0058
YEAR:1975 VESSEL/AGENCY: E.P.A.

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
STOCKTON IS.		70 17.5	147 01.	75 08 07	75 08 29					BASS			
THETIS IS.		70 33.	150 10.	75 08 07	75 08 29					BASS			

WATER LEVEL DATA SET NUMBER: 76-0041
YEAR:1976 VESSEL/AGENCY: U.S.G.S.

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
STEFANSSON SD.		70 24.	148 02.	76 08 01	76 09 22	52		5.5	5.5	AAND			

WATER LEVEL DATA SET NUMBER: 76-0053
YEAR:1976 VESSEL/AGENCY: CHS?

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
CAPE ALDRICH		83 07.	69 40.	76 08 01	76 09 30	?							

WATER LEVEL DATA SET NUMBER: 76-0055
YEAR:1976 VESSEL/AGENCY: NOAA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
PRUDHOE BAY		70 19.	148 19.	76 08 01	76 08 31								
PRUDHOE BAY		70 23.	148 31.	77 08 01	77 08 31							X	X
PRUDHOE BAY		70 23.	148 31.	78 08 01	78 08 31							X	X
PRUDHOE BAY		70 23.	148 31.	79 08 01	79 08 31								
PRUDHOE BAY		70 23.	148 30.	80 08 01	80 11 30								
PRUDHOE BAY		70 23.	148 30.	81 07 09	81 09 25								
PRUDHOE BAY		70 23.	148 30.	82 07 08	82 09 17								
PRUDHOE BAY		70 23.	148 30.	83 07 09	83 09 30								

WATER LEVEL DATA SET NUMBER: 77-0052
YEAR:1977 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
SIMPSON LAGOON	SC	70 33.1	149 46.	77 08 08	77 08 16		3.0	AAND	X

WATER LEVEL DATA SET NUMBER: 78-0033
YEAR:1978 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
SIMPSON LAGOON	AI	70 28.	148 13.06	78 07 24	78 09 23		3.87		
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 05 14	78 05 26		4.92		
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 05 26	78 07 26		4.92		
SIMPSON LAGOON	EC	70 26.04	148 46.05	78 07 26	78 08 30		4.92		
SIMPSON LAGOON	EN	70 31.07	149 24.01	78 07 23	78 08 28		1.67		
SIMPSON LAGOON	NI	70 23.6	147 33.1	78 07 25	78 08 30		5.09		
SIMPSON LAGOON	ST	70 24.	148 33.	78 07 24	78 08 30		.82		
SIMPSON LAGOON	NSC	70 30.35	149 45.25	78 07 23	78 08 31		2.16		
SIMPSON LAGOON	OPSC	70 30.21	149 50.13	78 07 23	78 08 31		6.08		

WATER LEVEL DATA SET NUMBER: 78-0036
YEAR:1978 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	S	70 19.4	147 33.7	78 11 11	79 04 02		6.00		
ALASKAN SHELF	BF	70 30.0	146 00.	78 11 11	79 03 23		7.52		
ALASKAN SHELF	BN	70 16.0	146 00.	78 11 11	79 03 21		7.22		
ALASKAN SHELF	EC	70 26.02	148 46.	78 11 16	79 05 05		5.54		
ALASKAN SHELF	NI	70 23.6	147 33.1	78 11 12	79 05 09		5.09		
ALASKAN SHELF	OL	70 33.5	149 43.8	78 11 12	79 04 05		1.73		
ALASKAN SHELF	ON	70 38.0	148 50.0	78 11 13	79 03 27		7.22		
ALASKAN SHELF	OO	70 39.0	148 50.0	78 11 13	79 03 29		7.52		

WATER LEVEL DATA SET NUMBER: 79-0045
YEAR:1979 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF	S	70 19.4	147 33.7	79 04 02	79 05 06		6.00		
ALASKAN SHELF	040	70 37.2	148 56.0	79 03 29	79 05 10		12.49		
ALASKAN SHELF	F84	70 18.	146 02.0	79 03 31	79 05 12		25.50		

WATER LEVEL DATA SET NUMBER: 79-0046
YEAR:1979 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
ALASKAN SHELF	S	70 19.4	147 33.7	79 05 06	79 11 ?				6.00				
ALASKAN SHELF	EC	70 26.02	148 46.0	79 05 05	79 11 ?				5.54				
ALASKAN SHELF	MP	70 32.1	148 28.8	79 05 14	79 11 ?				1.94				
ALASKAN SHELF	F84	70 18.	146 02.0	79 05 12	79 11 ?				25.50				

WATER LEVEL DATA SET NUMBER: 79-0057
YEAR:1979 VESSEL/AGENCY: OSI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
PRUDHOE BAY		70 31.5	148 13.5	79 08 12	79 10 08	8		13	14	SDAT	X	X	X

WATER LEVEL DATA SET NUMBER: 80-0038
YEAR:1980 VESSEL/AGENCY: U.ALASKA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
ALASKAN SHELF	A1	70 38.25	151 42.5	80 08 03	80 09 ?				4.24				
ALASKAN SHELF	A2	70 40.25	151 42.5	80 08 03	80 09 ?				6.38				
ALASKAN SHELF	A3	70 42.25	151 42.5	80 08 03	80 09 ?				7.59				
ALASKAN SHELF	C2	70 35.3	150 54.8	80 08 04	80 09 ?				9.42				
ALASKAN SHELF	C3	70 37.3	150 54.9	80 08 04	80 09 ?				11.86				
ALASKAN SHELF	T1	70 33.1	150 14.4	80 08 02	80 09 ?				4.85				
ALASKAN SHELF	T2	70 35.25	150 14.4	80 08 02	80 09 ?				9.42				
ALASKAN SHELF	T3	70 37.25	150 14.4	80 08 02	80 09 ?				11.86				

WATER LEVEL DATA SET NUMBER: 80-0044
YEAR:1980 VESSEL/AGENCY: OSI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF LEN	DT MN	DEPTHS INSTR	DEPTHS WATER	INST TYPE	ADDIT SENSOR P	T	C
SAG DELTA		70 25.4	147 56.6	80 08 22	80 09 23	32	7	7	7.3	SDAT	X	X	

WATER LEVEL DATA SET NUMBER: 80-0046
YEAR:1980 VESSEL/AGENCY: NOAA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN	MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
NARWHAL IS.		70 23.7	147 30.4	80 08 19	80 09 19						
CROSS IS.		70 29.5	147 57.0	80 09 01	81 09 01						

WATER LEVEL DATA SET NUMBER: 81-0033
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN	MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
CROSS IS.		70 25.8	147 56.4	81 08 15	81 09 08		7		7.6	SDAT	

WATER LEVEL DATA SET NUMBER: 81-0044
YEAR:1981 VESSEL/AGENCY: NOAA

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN	MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
DINKUM SANDS		70 25.4	147 45.7	81 02 01	81 05 31						
		70 30.7	149 52.0	81 08 24	81 09 28						

WATER LEVEL DATA SET NUMBER: 81-0048
YEAR:1981 VESSEL/AGENCY: U.WASHINGTON

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN	MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
NE CHUKCHI		71 01.1	159 19.0	81 09 10	82 08 21		30	58.3	60.3	AAND	
NE CHUKCHI		71 03.3	159 34.9	81 09 10	82 08 22		60	80.5	82.5	AAND	
NE CHUKCHI		71 10.9	159 54.2	81 09 11	82 09 14		60	54.7	56.7	AAND	

WATER LEVEL DATA SET NUMBER: 81-0049
YEAR:1981 VESSEL/AGENCY: OSI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN	MN	DEPTHS INSTR	WATER	INST TYPE	ADDIT SENSOR P T C
ALASKAN SHELF		70 21.7	147 57.7	81 08 19	81 11 01	59	7	4.3	4.6	SDAT	X

WATER LEVEL DATA SET NUMBER: 81-0051
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
OLIKTOK		70 31.2	149 51.6?	81 08 ?	81 09 ?			STEV	

? Central location of survey.

WATER LEVEL DATA SET NUMBER: 81-0052
YEAR:1981 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
SAG DELTA		70 25.2	147 56.4?	81 08 ?	81 09 ?			SDAT	

? Central location of survey.

WATER LEVEL DATA SET NUMBER: 82-0012
YEAR:1982 VESSEL/AGENCY: NORTEC/SOHIO

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
SAG DELTA		70 22.5	147 49.9	82 07 29	82 09 17		6.7	SDAT	

WATER LEVEL DATA SET NUMBER: 82-0014
YEAR:1982 VESSEL/AGENCY: SAI

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
DEMARCATION		69 42.	141 20.	82 08 02	82 ? ?				
ANGUN LAGOON		69 57.	142 25.	82 07 25	82 09 11				
BARTER IS.		70 06.	143 12.	82 08 02	82 ? ?				

WATER LEVEL DATA SET NUMBER: 82-0047
YEAR:1982 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
OLIKTOK		70 31.2	149 51.6?	82 07 ?	82 09 ?			SDAT	

? Central location of survey.

WATER LEVEL DATA SET NUMBER: 83-0020
YEAR:1983 VESSEL/AGENCY: WOODWARD-CLYDE

AREA	STN	LAT DEG MIN	LON DEG MIN	START YR MO DY	STOP YR MO DY	EFF DT LEN MN	DEPTHS INSTR WATER	INST TYPE	ADDIT SENSOR P T C
PRUDHOE BAY		70 19.8	148 23.4?	83 08 ?	83 09 ?			SDAT	

? Central location of survey.

11.4 AIDJEX 1975-1976 TEMPERATURE-SALINITY DATA

This sections contains listings of all the AIDJEX 1975-1976 temperature-salinity data, even those stations outside the boundaries of this data compilation.

The format of the T/S data listing is the same as in Section 11.1. The station letters CB, BF, SB and BB signify camps Caribou, Blue Fox, Snowbird and Big Bear, respectively.

BOTTLE/CTD DATA SET NUMBER: 75-0003
YEAR:1975 VESSEL/AGENCY: AIDJEX

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	CAST TO (M)	WATER DEPTH (M)	PARAM MEAS C	S	T	INSTR	INT NO HR
CANADA BASIN	CB 1	75	32.44	143	59.55	75	5	14	6	741		X		X	STD	
CANADA BASIN	CB 3	75	30.62	143	54.64	75	5	14	19	730		X		X	STD	
CANADA BASIN	CB 5	75	28.35	143	50.67	75	5	17	5	746		X		X	STD	
CANADA BASIN	CB 7	75	30.32	144	0.67	75	5	17	18	765		X		X	STD	
CANADA BASIN	CB 9	75	31.51	144	25.04	75	5	18	18	746		X		X	STD	
CANADA BASIN	CB 11	75	29.98	144	45.71	75	5	19	18	745		X		X	STD	
CANADA BASIN	CB 13	75	27.95	144	46.72	75	5	20	18	740		X		X	STD	
CANADA BASIN	CB 15	75	27.95	144	44.42	75	5	21	18	741		X		X	STD	
CANADA BASIN	CB 17	75	30.04	144	39.68	75	5	22	18	736		X		X	STD	
CANADA BASIN	CB 19	75	30.06	144	34.03	75	5	23	18	770		X		X	STD	
CANADA BASIN	CB 21	75	29.11	144	30.42	75	5	24	18	732		X		X	STD	
CANADA BASIN	CB 23	75	30.34	144	33.72	75	5	25	18	738		X		X	STD	
CANADA BASIN	CB 25	75	29.78	144	52.49	75	5	26	19	735		X		X	STD	
CANADA BASIN	CB 27	75	30.28	145	14.20	75	5	27	18	734		X		X	STD	
CANADA BASIN	CB 29	75	33.64	145	35.08	75	5	28	18	751		X		X	STD	
CANADA BASIN	CB 31	75	37.02	145	51.13	75	5	29	18	735		X		X	STD	
CANADA BASIN	CB 33	75	40.07	146	7.12	75	5	30	18	734		X		X	STD	
CANADA BASIN	CB 35	75	41.00	146	19.24	75	5	31	20	735		X		X	STD	
CANADA BASIN	CB 37	75	41.21	146	29.59	75	6	1	18	497		X		X	STD	
CANADA BASIN	CB 39	75	41.47	146	41.99	75	6	2	18	244		X		X	STD	
CANADA BASIN	CB 41	75	42.49	146	53.59	75	6	3	18	488		X		X	STD	
CANADA BASIN	CB 43	75	43.31	147	12.41	75	6	4	17	732		X		X	STD	
CANADA BASIN	CB 45	75	43.00	147	28.87	75	6	5	18	490		X		X	STD	
CANADA BASIN	CB 47	75	41.71	147	37.53	75	6	6	18	252		X		X	STD	
CANADA BASIN	CB 49	75	40.55	147	45.08	75	6	7	18	488		X		X	STD	
CANADA BASIN	CB 51	75	38.72	147	50.92	75	6	8	18	733		X		X	STD	
CANADA BASIN	CB 53	75	36.48	147	49.84	75	6	9	18	489		X		X	STD	
CANADA BASIN	CB 55	75	35.73	147	47.89	75	6	10	18	258		X		X	STD	
CANADA BASIN	CB 57	75	35.64	147	42.43	75	6	11	18	491		X		X	STD	
CANADA BASIN	CB 59	75	35.80	147	48.08	75	6	12	18	738		X		X	STD	
CANADA BASIN	CB 61	75	35.88	147	54.52	75	6	13	18	489		X		X	STD	
CANADA BASIN	CB 63	75	37.27	147	57.80	75	6	14	18	241		X		X	STD	
CANADA BASIN	CB 65	75	38.37	148	7.27	75	6	15	18	489		X		X	STD	
CANADA BASIN	CB 67	75	38.06	148	13.45	75	6	16	18	731		X		X	STD	
CANADA BASIN	CB 69	75	41.93	148	29.38	75	6	17	18	492		X		X	STD	
CANADA BASIN	CB 71	75	39.23	148	42.36	75	6	18	18	248		X		X	STD	
CANADA BASIN	CB 73	75	36.82	148	52.85	75	6	19	18	489		X		X	STD	
CANADA BASIN	CB 75	75	36.95	149	3.03	75	6	20	18	738		X		X	STD	
CANADA BASIN	CB 77	75	39.04	149	10.89	75	6	21	18	493		X		X	STD	
CANADA BASIN	CB 79	75	42.37	149	9.16	75	6	22	18	248		X		X	STD	
CANADA BASIN	CB 81	75	43.91	149	20.51	75	6	23	18	731		X		X	STD	
CANADA BASIN	CB 83	75	43.12	149	23.57	75	6	24	18	241		X		X	STD	
CANADA BASIN	CB 85	75	41.48	149	10.56	75	6	25	18	488		X		X	STD	
CANADA BASIN	CB 87	75	42.32	149	5.79	75	6	26	18	737		X		X	STD	
CANADA BASIN	CB 89	75	43.83	149	6.69	75	6	27	18	487		X		X	STD	
CANADA BASIN	CB 91	75	45.34	148	51.23	75	6	28	18	247		X		X	STD	
CANADA BASIN	CB 93	75	43.91	148	32.68	75	6	29	18	494		X		X	STD	
CANADA BASIN	CB 95	75	49.97	148	30.34	75	6	30	18	733		X		X	STD	
CANADA BASIN	CB 96	75	50.39	148	13.91	75	7	1	18	393		X		X	STD	
CANADA BASIN	CB 98	75	50.07	148	9.56	75	7	2	18	245		X		X	STD	
CANADA BASIN	CB100	75	50.79	147	42.00	75	7	3	18	488		X		X	STD	
CANADA BASIN	CB102	75	48.55	147	24.34	75	7	4	18	344		X		X	STD	
CANADA BASIN	CB104	75	44.26	147	5.65	75	7	5	18	345		X		X	STD	
CANADA BASIN	CB105	75	40.55	146	41.57	75	7	6	19	240		X		X	STD	
CANADA BASIN	CB107	75	40.35	146	14.42	75	7	7	18	506		X		X	STD	
CANADA BASIN	CB109	75	38.41	146	2.37	75	7	8	19	732		X		X	STD	
CANADA BASIN	CB111	75	41.40	145	47.99	75	7	9	19	491		X		X	STD	
CANADA BASIN	CB113	75	37.88	145	12.56	75	7	10	18	240		X		X	STD	
CANADA BASIN	CB115	75	36.81	145	7.71	75	7	11	18	487		X		X	STD	
CANADA BASIN	CB117	75	38.86	145	10.19	75	7	12	18	257		X		X	STD	
CANADA BASIN	CB119	75	40.55	145	16.40	75	7	13	18	732		X		X	STD	
CANADA BASIN	CB121	75	40.31	145	13.36	75	7	14	18	732		X		X	STD	
CANADA BASIN	CB123	75	38.92	145	20.94	75	7	15	18	199		X		X	STD	
CANADA BASIN	CB124	75	34.94	145	21.98	75	7	16	18	483		X		X	STD	
CANADA BASIN	CB125	75	20.17	145	19.10	75	7	20	18	239		X		X	STD	
CANADA BASIN	CB126	75	13.15	145	22.83	75	7	21	18	737		X		X	STD	
CANADA BASIN	CB128	75	8.74	145	28.18	75	7	22	18	239		X		X	STD	
CANADA BASIN	CB130	75	6.58	145	33.74	75	7	23	18	502		X		X	STD	
CANADA BASIN	CB132	75	6.04	145	36.73	75	7	24	18	730		X		X	STD	
CANADA BASIN	CB134	75	6.30	145	49.95	75	7	25	18	485		X		X	STD	
CANADA BASIN	CB136	75	3.53	145	57.51	75	7	26	18	238		X		X	STD	

CANADA BASIN	CB138	75	0.28	145	53.18	75	7	27	18	489	X	X	STD
CANADA BASIN	CB140	74	57.37	145	49.66	75	7	28	18	729	X	X	STD
CANADA BASIN	CB142	74	52.09	145	24.12	75	7	29	18	730	X	X	STD
CANADA BASIN	CB144	74	44.99	145	9.18	75	7	30	18	260	X	X	STD
CANADA BASIN	CB146	74	40.20	144	52.28	75	7	31	18	484	X	X	STD
CANADA BASIN	CB148	74	36.43	144	36.94	75	8	1	18	729	X	X	STD
CANADA BASIN	CB150	74	34.37	144	32.14	75	8	2	18	485	X	X	STD
CANADA BASIN	CB152	74	33.35	144	27.78	75	8	3	19	238	X	X	STD
CANADA BASIN	CB154	74	33.82	144	19.72	75	8	4	18	483	X	X	STD
CANADA BASIN	CB156	74	34.88	143	59.08	75	8	5	18	732	X	X	STD
CANADA BASIN	CB158	74	31.27	143	55.46	75	8	6	19	504	X	X	STD
CANADA BASIN	CB159	74	30.29	143	49.52	75	8	7	18	303	X	X	STD
CANADA BASIN	CB161	74	30.14	143	39.28	75	8	8	18	730	X	X	STD
CANADA BASIN	CB163	74	28.18	143	8.72	75	8	9	6	240	X	X	STD
CANADA BASIN	CB165	74	25.45	142	55.94	75	8	9	18	485	X	X	STD
CANADA BASIN	CB167	74	17.75	142	34.76	75	8	10	18	729	X	X	STD
CANADA BASIN	CB169	74	12.35	142	20.17	75	8	11	18	241	X	X	STD
CANADA BASIN	CB171	74	9.19	142	2.29	75	8	12	18	503	X	X	STD
CANADA BASIN	CB173	74	12.87	141	50.80	75	8	13	18	730	X	X	STD
CANADA BASIN	CB175	74	8.88	141	31.60	75	8	14	18	729	X	X	STD
CANADA BASIN	CB177	74	10.32	141	32.15	75	8	15	18	254	X	X	STD
CANADA BASIN	CB179	74	10.75	141	33.28	75	8	16	18	485	X	X	STD
CANADA BASIN	CB181	74	6.50	141	47.59	75	8	17	18	728	X	X	STD
CANADA BASIN	CB183	74	5.69	141	57.12	75	8	18	18	483	X	X	STD
CANADA BASIN	CB185	74	6.11	142	15.50	75	8	19	18	237	X	X	STD
CANADA BASIN	CB187	74	7.58	142	39.53	75	8	20	18	487	X	X	STD
CANADA BASIN	CB189	74	7.18	142	49.04	75	8	21	19	728	X	X	STD
CANADA BASIN	CB191	74	5.23	142	46.14	75	8	22	18	727	X	X	STD
CANADA BASIN	CB193	74	1.64	142	40.36	75	8	23	18	727	X	X	STD
CANADA BASIN	CB195	74	0.61	142	36.81	75	8	24	18	728	X	X	STD
CANADA BASIN	CB196	74	0.73	142	22.60	75	8	25	18	731	X	X	STD
CANADA BASIN	CB198	74	4.24	142	19.88	75	8	26	18	731	X	X	STD
CANADA BASIN	CB200	73	59.41	141	52.23	75	8	27	18	733	X	X	STD
CANADA BASIN	CB202	73	51.96	141	22.64	75	8	28	18	728	X	X	STD
CANADA BASIN	CB203	73	48.17	141	4.60	75	8	29	18	729	X	X	STD
CANADA BASIN	CB205	73	43.54	141	4.87	75	8	30	18	730	X	X	STD
CANADA BASIN	CB207	73	40.98	141	7.71	75	8	31	18	729	X	X	STD
CANADA BASIN	CB209	73	35.67	140	48.58	75	9	1	18	733	X	X	STD
CANADA BASIN	CB211	73	29.14	140	44.33	75	9	2	18	731	X	X	STD
CANADA BASIN	CB212	73	30.85	140	40.06	75	9	3	18	735	X	X	STD
CANADA BASIN	CB214	73	31.87	140	34.47	75	9	4	18	638	X	X	STD
CANADA BASIN	CB216	73	26.71	140	24.35	75	9	5	18	735	X	X	STD
CANADA BASIN	CB218	73	25.44	140	34.23	75	9	6	18	730	X	X	STD
CANADA BASIN	CB220	73	25.30	140	47.09	75	9	7	18	729	X	X	STD
CANADA BASIN	CB221	73	23.78	140	37.29	75	9	8	18	735	X	X	STD
CANADA BASIN	CB223	73	23.48	140	15.80	75	9	9	18	728	X	X	STD
CANADA BASIN	CB225	73	22.13	139	57.22	75	9	10	18	728	X	X	STD
CANADA BASIN	CB227	73	22.77	139	40.55	75	9	11	18	729	X	X	STD
CANADA BASIN	CB229	73	22.94	139	21.76	75	9	12	18	676	X	X	STD
CANADA BASIN	CB231	73	22.05	139	3.16	75	9	13	19	394	X	X	STD
CANADA BASIN	CB233	73	20.83	138	46.54	75	9	14	18	727	X	X	STD
CANADA BASIN	CB235	73	21.76	138	59.30	75	9	15	18	731	X	X	STD
CANADA BASIN	CB237	73	24.26	139	10.33	75	9	16	18	729	X	X	STD
CANADA BASIN	CB239	73	27.53	139	14.57	75	9	17	18	729	X	X	STD
CANADA BASIN	CB241	73	28.58	139	11.32	75	9	18	18	729	X	X	STD
CANADA BASIN	CB243	73	25.65	139	30.87	75	9	19	18	728	X	X	STD
CANADA BASIN	CB245	73	22.80	139	30.62	75	9	20	18	732	X	X	STD
CANADA BASIN	CB246	73	22.90	139	0.91	75	9	21	18	486	X	X	STD
CANADA BASIN	CB248	73	19.88	138	36.19	75	9	22	18	731	X	X	STD
CANADA BASIN	CB250	73	17.85	138	46.12	75	9	23	18	728	X	X	STD
CANADA BASIN	CB252	73	5.98	138	20.25	75	9	27	18	731	X	X	STD
CANADA BASIN	CB253	73	5.41	138	18.13	75	9	28	18	729	X	X	STD
CANADA BASIN	CB255	73	7.10	138	21.56	75	9	29	18	530	X	X	STD
CANADA BASIN	CB257	73	9.67	138	35.39	75	9	30	18	728	X	X	STD
CANADA BASIN	CB259	73	12.47	139	3.33	75	10	1	18	730	X	X	STD
CANADA BASIN	CB261	73	16.22	139	26.38	75	10	2	18	732	X	X	STD
CANADA BASIN	CB263	73	20.89	139	42.73	75	10	3	18	730	X	X	STD
CANADA BASIN	CB265	73	25.35	139	58.27	75	10	4	18	731	X	X	STD
CANADA BASIN	CB267	73	26.94	140	9.10	75	10	5	18	732	X	X	STD
CANADA BASIN	CB269	73	26.74	140	17.78	75	10	6	18	730	X	X	STD
CANADA BASIN	CB271	73	24.74	140	15.57	75	10	7	18	729	X	X	STD
CANADA BASIN	CB273	73	22.75	140	14.62	75	10	8	18	730	X	X	STD
CANADA BASIN	CB275	73	20.60	140	12.60	75	10	9	18	609	X	X	STD
CANADA BASIN	CB277	73	17.46	140	12.15	75	10	11	18	728	X	X	STD
CANADA BASIN	CB279	73	18.02	139	57.88	75	10	12	18	729	X	X	STD
CANADA BASIN	CB281	73	16.64	140	6.32	75	10	13	18	732	X	X	STD
CANADA BASIN	CB283	73	17.24	140	37.90	75	10	15	18	729	X	X	STD
CANADA BASIN	CB285	73	15.61	140	51.87	75	10	17	18	734	X	X	STD
CANADA BASIN	CB287	73	15.02	140	55.34	75	10	18	18	728	X	X	STD
CANADA BASIN	CB289	73	16.09	141	13.34	75	10	19	18	732	X	X	STD
CANADA BASIN	CB291	73	16.88	141	22.97	75	10	20	18	730	X	X	STD
CANADA BASIN	CB293	73	17.40	141	26.81	75	10	21	18	730	X	X	STD
CANADA BASIN	CB295	73	20.54	141	46.01	75	10	24	5	728	X	X	STD

CANADA	BASIN	CB297	73	21.85	141	36.11	75	10	25	21	739	X	X	STD
CANADA	BASIN	CB298	73	4.61	141	14.72	75	10	29	4	735	X	X	STD
CANADA	BASIN	CB299	72	58.54	141	17.66	75	10	29	20	743	X	X	STD
CANADA	BASIN	CB300	72	47.59	141	10.65	75	10	31	23	742	X	X	STD
CANADA	BASIN	CB301	72	47.15	141	6.77	75	11	1	20	743	X	X	STD
CANADA	BASIN	CB304	72	47.45	141	7.12	75	11	3	5	743	X	X	STD
CANADA	BASIN	CB306	72	49.39	141	12.52	75	11	4	23	742	X	X	STD
CANADA	BASIN	CB309	72	50.57	141	10.03	75	11	6	4	737	X	X	STD
CANADA	BASIN	CB311	72	51.17	141	4.01	75	11	6	18	739	X	X	STD
CANADA	BASIN	CB312	72	52.60	140	55.61	75	11	7	18	742	X	X	STD
CANADA	BASIN	CB314	72	54.11	140	57.82	75	11	8	19	740	X	X	STD
CANADA	BASIN	CB318	72	52.66	140	51.32	75	11	9	19	741	X	X	STD
CANADA	BASIN	CB320	72	52.81	140	49.99	75	11	10	4	745	X	X	STD
CANADA	BASIN	CB322	72	52.69	140	48.91	75	11	10	18	753	X	X	STD
CANADA	BASIN	CB324	72	52.55	140	47.94	75	11	11	4	740	X	X	STD
CANADA	BASIN	CB326	72	52.50	140	48.26	75	11	11	18	740	X	X	STD
CANADA	BASIN	CB328	72	52.43	140	48.30	75	11	12	5	742	X	X	STD
CANADA	BASIN	CB330	72	51.77	140	52.13	75	11	12	18	741	X	X	STD
CANADA	BASIN	CB332	72	51.17	140	58.03	75	11	13	4	741	X	X	STD
CANADA	BASIN	CB334	72	49.51	141	8.26	75	11	13	18	657	X	X	STD
CANADA	BASIN	CB336	72	47.43	141	15.58	75	11	14	4	743	X	X	STD
CANADA	BASIN	CB339	72	44.41	141	23.00	75	11	14	18	740	X	X	STD
CANADA	BASIN	CB341	72	43.64	141	22.60	75	11	15	5	743	X	X	STD
CANADA	BASIN	CB343	72	43.08	141	21.46	75	11	16	2	741	X	X	STD
CANADA	BASIN	CB345	72	43.10	141	21.70	75	11	16	18	740	X	X	STD
CANADA	BASIN	CB347	72	43.12	141	21.67	75	11	17	5	737	X	X	STD
CANADA	BASIN	CB349	72	43.07	141	21.58	75	11	17	18	741	X	X	STD
CANADA	BASIN	CB351	72	43.11	141	21.67	75	11	18	4	741	X	X	STD
CANADA	BASIN	CB353	72	43.09	141	21.74	75	11	18	18	741	X	X	STD
CANADA	BASIN	CB355	72	43.12	141	21.73	75	11	19	4	741	X	X	STD
CANADA	BASIN	CB357	72	43.13	141	21.74	75	11	19	18	741	X	X	STD
CANADA	BASIN	CB359	72	44.02	141	26.13	75	11	20	4	741	X	X	STD
CANADA	BASIN	CB361	72	48.03	141	38.29	75	11	20	20	736	X	X	STD
CANADA	BASIN	CB363	72	51.01	141	47.42	75	11	21	5	736	X	X	STD
CANADA	BASIN	CB365	72	56.24	142	0.78	75	11	21	18	733	X	X	STD
CANADA	BASIN	CB367	73	1.23	142	9.44	75	11	22	5	740	X	X	STD
CANADA	BASIN	CB371	73	6.11	142	14.63	75	11	23	5	741	X	X	STD
CANADA	BASIN	CB374	73	6.71	142	21.29	75	11	23	18	743	X	X	STD
CANADA	BASIN	CB376	73	7.23	142	23.46	75	11	24	4	745	X	X	STD
CANADA	BASIN	CB378	73	7.39	142	23.34	75	11	24	17	741	X	X	STD
CANADA	BASIN	CB380	73	7.54	142	26.74	75	11	25	5	740	X	X	STD
CANADA	BASIN	CB382	73	7.90	142	34.16	75	11	25	18	741	X	X	STD
CANADA	BASIN	CB384	73	8.91	142	42.38	75	11	26	5	743	X	X	STD
CANADA	BASIN	CB386	73	11.37	142	50.70	75	11	26	18	736	X	X	STD
CANADA	BASIN	CB388	73	12.85	142	53.27	75	11	27	5	741	X	X	STD
CANADA	BASIN	CB390	73	13.24	142	53.83	75	11	27	18	741	X	X	STD
CANADA	BASIN	CB392	73	13.38	142	54.53	75	11	28	5	741	X	X	STD
CANADA	BASIN	CB394	73	13.81	142	59.63	75	11	28	18	741	X	X	STD
CANADA	BASIN	CB396	73	14.32	143	5.02	75	11	29	4	741	X	X	STD
CANADA	BASIN	CB398	73	14.09	143	9.44	75	11	29	18	741	X	X	STD
CANADA	BASIN	CB400	73	13.74	143	10.11	75	11	30	5	741	X	X	STD
CANADA	BASIN	CB402	73	12.94	143	8.36	75	11	30	18	742	X	X	STD
CANADA	BASIN	CB404	73	11.35	143	3.22	75	12	1	5	740	X	X	STD
CANADA	BASIN	CB406	73	7.83	142	59.33	75	12	1	18	742	X	X	STD
CANADA	BASIN	CB408	73	6.10	143	1.60	75	12	2	5	741	X	X	STD
CANADA	BASIN	CB410	73	4.26	143	0.88	75	12	2	18	741	X	X	STD
CANADA	BASIN	CB412	73	3.61	142	59.04	75	12	3	5	741	X	X	STD
CANADA	BASIN	CB414	73	3.49	142	56.96	75	12	3	18	741	X	X	STD
CANADA	BASIN	CB416	73	3.37	142	56.59	75	12	4	10	741	X	X	STD
CANADA	BASIN	CB418	73	3.37	142	56.48	75	12	4	18	741	X	X	STD
CANADA	BASIN	CB420	73	3.36	142	55.86	75	12	5	5	742	X	X	STD
CANADA	BASIN	CB422	73	3.30	142	55.94	75	12	5	18	742	X	X	STD
CANADA	BASIN	CB426	73	3.12	147	55.04	75	12	7	2	741	X	X	STD
CANADA	BASIN	CB428	73	4.46	142	48.38	75	12	7	20	747	X	X	STD
CANADA	BASIN	CB430	73	6.41	142	45.73	75	12	8	4	742	X	X	STD
CANADA	BASIN	CB432	73	9.17	142	51.97	75	12	8	18	741	X	X	STD
CANADA	BASIN	CB434	73	9.27	142	56.89	75	12	9	4	742	X	X	STD
CANADA	BASIN	CB436	73	7.93	142	57.67	75	12	9	18	741	X	X	STD
CANADA	BASIN	CB438	73	7.13	142	55.23	75	12	10	5	741	X	X	STD
CANADA	BASIN	CB440	73	5.68	142	48.26	75	12	10	18	394	X	X	STD
CANADA	BASIN	CB441	73	1.64	143	7.99	75	12	21	6	740	X	X	STD
CANADA	BASIN	CB442	73	1.61	143	7.39	75	12	21	18	743	X	X	STD
CANADA	BASIN	CB444	73	2.07	143	10.69	75	12	22	18	744	X	X	STD
CANADA	BASIN	CB446	73	2.41	143	13.54	75	12	23	6	746	X	X	STD
CANADA	BASIN	CB451	73	1.94	143	18.20	75	12	27	19	745	X	X	STD
CANADA	BASIN	CB452	73	2.63	143	24.33	75	12	28	5	739	X	X	STD
CANADA	BASIN	CB454	73	3.57	143	31.25	75	12	28	18	742	X	X	STD
CANADA	BASIN	CB456	73	3.76	143	32.42	75	12	29	5	743	X	X	STD
CANADA	BASIN	CB458	73	3.10	143	28.44	75	12	29	18	742	X	X	STD
CANADA	BASIN	CB460	73	2.58	143	23.90	75	12	30	5	745	X	X	STD
CANADA	BASIN	CB462	73	2.23	143	19.68	75	12	30	18	743	X	X	STD
CANADA	BASIN	CB464	73	2.21	143	18.86	75	12	31	6	743	X	X	STD
CANADA	BASIN	CB466	73	3.21	143	23.85	75	12	31	18	741	X	X	STD

CANADA	BASIN	CB468	73	5.02	143	32.53	76	1	1	6	740	X	X	STD
CANADA	BASIN	CB470	73	6.52	143	36.03	76	1	1	22	745	X	X	STD
CANADA	BASIN	CB472	73	6.40	143	34.83	76	1	2	5	753	X	X	STD
CANADA	BASIN	CB474	73	7.44	143	38.10	76	1	2	18	741	X	X	STD
CANADA	BASIN	CB476	73	8.93	143	43.58	76	1	3	7	739	X	X	STD
CANADA	BASIN	CB478	73	11.00	143	48.61	76	1	3	19	740	X	X	STD
CANADA	BASIN	CB480	73	14.62	143	54.31	76	1	4	6	742	X	X	STD
CANADA	BASIN	CB482	73	18.68	144	2.98	76	1	4	18	742	X	X	STD
CANADA	BASIN	CB484	73	21.42	144	8.79	76	1	5	5	745	X	X	STD
CANADA	BASIN	CB486	73	22.55	144	11.11	76	1	5	18	2973	X	X	STD
CANADA	BASIN	CB488	73	22.64	144	10.82	76	1	6	5	745	X	X	STD
CANADA	BASIN	CB490	73	22.82	144	8.83	76	1	6	18	744	X	X	STD
CANADA	BASIN	CB492	73	23.44	144	7.69	76	1	7	6	753	X	X	STD
CANADA	BASIN	CB494	73	23.90	144	9.14	76	1	7	18	741	X	X	STD
CANADA	BASIN	CB496	73	24.16	144	8.90	76	1	8	6	743	X	X	STD
CANADA	BASIN	CB498	73	23.53	144	10.48	76	1	8	18	742	X	X	STD
CANADA	BASIN	CB500	73	19.82	144	10.90	76	1	9	18	741	X	X	STD
CANADA	BASIN	CB502	73	17.36	143	57.30	76	1	10	18	741	X	X	STD
CANADA	BASIN	CB504	73	12.13	143	35.99	76	1	11	19	736	X	X	STD
CANADA	BASIN	CB506	73	8.56	143	26.69	76	1	12	19	738	X	X	STD
CANADA	BASIN	CB508	73	8.57	143	26.51	76	1	13	5	744	X	X	STD
CANADA	BASIN	CB510	73	8.58	143	26.47	76	1	13	18	743	X	X	STD
CANADA	BASIN	CB512	73	8.59	143	26.50	76	1	14	6	743	X	X	STD
CANADA	BASIN	CB514	73	9.14	143	27.29	76	1	14	18	743	X	X	STD
CANADA	BASIN	CB515	73	10.37	143	28.39	76	1	15	6	743	X	X	STD
CANADA	BASIN	CB517	73	10.63	143	29.08	76	1	15	18	495	X	X	STD
CANADA	BASIN	CB519	73	9.55	143	26.64	76	1	16	6	742	X	X	STD
CANADA	BASIN	CB521	73	8.46	143	23.48	76	1	16	18	743	X	X	STD
CANADA	BASIN	CB523	73	8.69	143	23.65	76	1	17	6	743	X	X	STD
CANADA	BASIN	CB525	73	8.84	143	25.72	76	1	17	18	741	X	X	STD
CANADA	BASIN	CB527	73	8.39	143	26.26	76	1	18	6	741	X	X	STD
CANADA	BASIN	CB529	73	8.16	143	26.14	76	1	18	18	741	X	X	STD
CANADA	BASIN	CB530	73	7.93	143	26.03	76	1	19	6	743	X	X	STD
CANADA	BASIN	CB531	73	7.51	143	23.47	76	1	19	19	743	X	X	STD
CANADA	BASIN	CB533	73	6.92	143	17.17	76	1	20	18	744	X	X	STD
CANADA	BASIN	CB534	73	6.91	143	17.29	76	1	21	6	743	X	X	STD
CANADA	BASIN	CB535	73	6.74	143	18.96	76	1	21	18	742	X	X	STD
CANADA	BASIN	CB536	73	5.98	143	25.90	76	1	22	7	2966	X	X	STD
CANADA	BASIN	CB538	73	5.62	143	26.76	76	1	22	19	744	X	X	STD
CANADA	BASIN	CB539	73	4.94	143	28.30	76	1	23	5	743	X	X	STD
CANADA	BASIN	CB541	73	4.24	143	28.36	76	1	23	18	742	X	X	STD
CANADA	BASIN	CB542	73	4.07	143	26.97	76	1	24	5	744	X	X	STD
CANADA	BASIN	CB544	73	3.44	143	24.74	76	1	24	18	742	X	X	STD
CANADA	BASIN	CB545	73	3.22	143	24.27	76	1	25	5	743	X	X	STD
CANADA	BASIN	CB547	73	2.92	143	24.56	76	1	25	19	743	X	X	STD
CANADA	BASIN	CB549	73	2.87	143	24.59	76	1	26	5	743	X	X	STD
CANADA	BASIN	CB551	73	2.86	143	24.62	76	1	26	18	2967	X	X	STD
CANADA	BASIN	CB552	73	2.84	143	24.53	76	1	28	6	102	X	X	STD
CANADA	BASIN	CB553	73	2.86	143	24.64	76	1	29	5	742	X	X	STD
CANADA	BASIN	CB555	73	3.05	143	27.56	76	1	29	19	741	X	X	STD
CANADA	BASIN	CB556	73	3.19	143	34.60	76	1	30	5	738	X	X	STD
CANADA	BASIN	CB558	73	3.17	143	37.78	76	1	30	8	737	X	X	STD
CANADA	BASIN	CB559	73	3.59	144	1.20	76	1	31	5	744	X	X	STD
CANADA	BASIN	CB561	73	4.37	144	10.90	76	1	31	18	744	X	X	STD
CANADA	BASIN	CB563	73	5.65	144	13.04	76	2	1	5	744	X	X	STD
CANADA	BASIN	CB565	73	6.53	144	14.15	76	2	1	19	745	X	X	STD
CANADA	BASIN	CB567	73	6.82	144	12.23	76	2	2	5	745	X	X	STD
CANADA	BASIN	CB569	73	6.82	144	7.24	76	2	2	18	2988	X	X	STD
CANADA	BASIN	CB570	73	6.76	143	59.53	76	2	3	18	745	X	X	STD
CANADA	BASIN	CB572	73	6.29	144	2.01	76	2	4	6	745	X	X	STD
CANADA	BASIN	CB574	73	5.82	144	1.22	76	2	4	18	745	X	X	STD
CANADA	BASIN	CB576	73	5.53	144	2.31	76	2	5	6	744	X	X	STD
CANADA	BASIN	CB578	73	5.10	144	2.97	76	2	5	18	744	X	X	STD
CANADA	BASIN	CB580	73	2.59	143	58.51	76	2	6	18	744	X	X	STD
CANADA	BASIN	CB582	73	1.74	143	50.14	76	2	7	6	744	X	X	STD
CANADA	BASIN	CB584	73	0.22	143	39.94	76	2	7	18	745	X	X	STD
CANADA	BASIN	CB586	72	55.68	143	19.15	76	2	10	5	2988	X	X	STD
CANADA	BASIN	CB594	72	55.04	143	16.53	76	2	12	18	746	X	X	STD
CANADA	BASIN	CB596	72	54.91	143	16.25	76	2	13	6	745	X	X	STD
CANADA	BASIN	CB598	72	54.91	143	16.08	76	2	13	18	746	X	X	STD
CANADA	BASIN	CB600	72	54.89	143	16.28	76	2	14	6	740	X	X	STD
CANADA	BASIN	CB610	72	54.89	143	16.21	76	2	16	18	248	X	X	STD
CANADA	BASIN	CB632	72	54.89	143	16.14	76	2	22	18	745	X	X	STD
CANADA	BASIN	CB634	72	54.89	143	16.23	76	2	23	6	744	X	X	STD
CANADA	BASIN	CB636	72	54.90	143	16.22	76	2	23	18	744	X	X	STD
CANADA	BASIN	CB638	72	54.89	143	16.15	76	2	24	5	2989	X	X	STD
CANADA	BASIN	CB640	72	54.90	143	16.32	76	2	24	18	745	X	X	STD
CANADA	BASIN	CB642	72	54.89	143	16.31	76	2	25	6	745	X	X	STD
CANADA	BASIN	CB647	72	56.83	143	14.35	76	2	27	18	745	X	X	STD
CANADA	BASIN	CB649	72	56.41	143	13.57	76	2	28	6	746	X	X	STD
CANADA	BASIN	CB651	72	56.43	143	13.74	76	2	28	18	747	X	X	STD
CANADA	BASIN	CB653	72	56.94	143	14.78	76	2	29	7	745	X	X	STD
CANADA	BASIN	CB655	72	58.12	143	17.06	76	2	29	18	746	X	X	STD

CANADA	BASIN	CB657	72	59.36	143	20.16	76	3	1	8	746	X	X	STD
CANADA	BASIN	CB659	72	59.26	143	21.26	76	3	1	18	745	X	X	STD
CANADA	BASIN	CB663	72	56.44	143	41.61	76	3	5	18	746	X	X	STD
CANADA	BASIN	CB664	72	56.16	143	39.91	76	3	6	6	745	X	X	STD
CANADA	BASIN	CB666	72	56.13	143	39.05	76	3	6	18	745	X	X	STD
CANADA	BASIN	CB668	72	57.65	143	49.87	76	3	7	18	742	X	X	STD
CANADA	BASIN	CB670	72	58.31	144	0.80	76	3	8	6	744	X	X	STD
CANADA	BASIN	CB672	72	58.42	144	9.40	76	3	8	18	745	X	X	STD
CANADA	BASIN	CB674	72	58.81	144	16.90	76	3	9	5	1968	X	X	STD
CANADA	BASIN	CB676	72	58.70	144	24.60	76	3	10	6	745	X	X	STD
CANADA	BASIN	CB678	72	58.62	144	27.70	76	3	10	18	745	X	X	STD
CANADA	BASIN	CB680	72	58.33	144	28.82	76	3	11	6	744	X	X	STD
CANADA	BASIN	CB682	72	58.31	144	28.67	76	3	11	18	745	X	X	STD
CANADA	BASIN	CB684	72	58.14	144	29.24	76	3	12	6	745	X	X	STD
CANADA	BASIN	CB686	72	58.07	144	29.28	76	3	12	20	745	X	X	STD
CANADA	BASIN	CB687	72	58.08	144	29.43	76	3	12	22	131	X	X	STD
CANADA	BASIN	CB688	72	58.05	144	28.64	76	3	13	6	744	X	X	STD
CANADA	BASIN	CB690	72	57.80	144	29.37	76	3	13	18	746	X	X	STD
CANADA	BASIN	CB692	72	56.88	144	27.25	76	3	14	6	745	X	X	STD
CANADA	BASIN	CB694	72	56.21	144	25.91	76	3	14	10	129	X	X	STD
CANADA	BASIN	CB696	72	55.05	144	23.84	76	3	14	18	744	X	X	STD
CANADA	BASIN	CB698	72	52.51	144	20.53	76	3	15	6	495	X	X	STD
CANADA	BASIN	CB700	72	51.44	144	18.82	76	3	15	11	346	X	X	STD
CANADA	BASIN	CB702	72	49.73	144	16.70	76	3	15	18	744	X	X	STD
CANADA	BASIN	CB704	72	48.69	144	15.21	76	3	15	23	149	X	X	STD
CANADA	BASIN	CB706	72	48.26	144	14.62	76	3	16	6	744	X	X	STD
CANADA	BASIN	CB708	72	47.62	144	14.71	76	3	16	18	744	X	X	STD
CANADA	BASIN	CB710	72	44.90	144	14.03	76	3	17	6	743	X	X	STD
CANADA	BASIN	CB712	72	43.39	144	10.21	76	3	17	18	743	X	X	STD
CANADA	BASIN	CB714	72	43.34	144	9.85	76	3	18	6	744	X	X	STD
CANADA	BASIN	CB716	72	43.34	144	9.94	76	3	18	18	745	X	X	STD
CANADA	BASIN	CB718	72	43.33	144	10.00	76	3	19	6	745	X	X	STD
CANADA	BASIN	CB720	72	43.35	144	10.10	76	3	19	18	745	X	X	STD
CANADA	BASIN	CB722	72	43.36	144	9.92	76	3	20	6	126	X	X	STD
CANADA	BASIN	CB724	72	43.34	144	10.01	76	3	20	18	743	X	X	STD
CANADA	BASIN	CB727	72	43.36	144	9.76	76	3	21	7	394	X	X	STD
CANADA	BASIN	CB729	72	43.34	144	9.85	76	3	22	6	744	X	X	STD
CANADA	BASIN	CB731	72	43.33	144	10.03	76	3	22	18	744	X	X	STD
CANADA	BASIN	CB733	72	43.30	144	9.84	76	3	23	18	746	X	X	STD
CANADA	BASIN	CB735	72	43.33	144	9.68	76	3	24	6	745	X	X	STD
CANADA	BASIN	CB737	72	43.34	144	9.82	76	3	24	18	744	X	X	STD
CANADA	BASIN	CB739	72	43.37	144	9.74	76	3	25	18	745	X	X	STD
CANADA	BASIN	CB741	72	43.37	144	9.60	76	3	26	6	744	X	X	STD
CANADA	BASIN	CB743	72	43.36	144	9.47	76	3	26	18	744	X	X	STD
CANADA	BASIN	CB745	72	43.38	144	9.53	76	3	27	8	745	X	X	STD
CANADA	BASIN	CB747	72	43.34	144	9.58	76	3	27	18	746	X	X	STD
CANADA	BASIN	CB749	72	43.33	144	9.72	76	3	28	6	741	X	X	STD
CANADA	BASIN	CB751	72	43.36	144	9.55	76	3	28	18	745	X	X	STD
CANADA	BASIN	CB753	72	43.37	144	9.47	76	3	29	7	745	X	X	STD
CANADA	BASIN	CB757	72	43.37	144	9.56	76	3	30	6	745	X	X	STD
CANADA	BASIN	CB759	72	43.38	144	9.55	76	3	30	18	745	X	X	STD
CANADA	BASIN	CB761	72	43.36	144	9.50	76	3	31	6	745	X	X	STD
CANADA	BASIN	CB763	72	43.36	144	9.46	76	3	31	18	744	X	X	STD
CANADA	BASIN	CB765	72	43.36	144	9.03	76	4	1	6	745	X	X	STD
CANADA	BASIN	CB767	72	43.37	144	9.54	76	4	1	18	745	X	X	STD
CANADA	BASIN	CB769	72	43.36	144	9.53	76	4	2	6	745	X	X	STD
CANADA	BASIN	CB771	72	43.36	144	9.53	76	4	2	18	744	X	X	STD
CANADA	BASIN	CB773	72	43.36	144	9.46	76	4	3	6	745	X	X	STD
CANADA	BASIN	CB775	72	43.36	144	9.43	76	4	3	18	745	X	X	STD
CANADA	BASIN	CB777	72	43.37	144	9.64	76	4	4	6	745	X	X	STD
CANADA	BASIN	CB779	72	43.36	144	9.42	76	4	4	18	994	X	X	STD
CANADA	BASIN	CB781	72	42.99	144	13.43	76	4	5	6	744	X	X	STD
CANADA	BASIN	CB783	72	42.83	144	15.45	76	4	5	18	744	X	X	STD
CANADA	BASIN	CB785	72	42.80	144	17.08	76	4	6	6	745	X	X	STD
CANADA	BASIN	CB787	72	42.88	144	17.92	76	4	6	18	745	X	X	STD
CANADA	BASIN	CB790	72	42.85	144	17.65	76	4	7	6	745	X	X	STD
CANADA	BASIN	CB792	72	42.84	144	17.73	76	4	7	18	745	X	X	STD
CANADA	BASIN	CB794	72	42.84	144	17.40	76	4	8	6	744	X	X	STD
CANADA	BASIN	CB796	72	43.31	144	18.99	76	4	8	18	745	X	X	STD
CANADA	BASIN	CB798	72	45.33	144	23.24	76	4	9	6	744	X	X	STD
CANADA	BASIN	CB800	72	44.21	144	25.90	76	4	10	6	744	X	X	STD
CANADA	BASIN	CB802	72	43.40	144	29.14	76	4	10	19	745	X	X	STD
CANADA	BASIN	CB804	72	43.07	144	33.55	76	4	11	6	744	X	X	STD
CANADA	BASIN	CB806	72	43.46	144	43.60	76	4	11	18	992	X	X	STD
CANADA	BASIN	CB808	72	44.36	144	53.27	76	4	12	6	743	X	X	STD
CANADA	BASIN	CB810	72	44.57	144	55.54	76	4	12	18	744	X	X	STD
CANADA	BASIN	CB812	72	44.38	144	54.29	76	4	13	6	744	X	X	STD
CANADA	BASIN	CB814	72	44.18	144	52.36	76	4	13	18	744	X	X	STD
CANADA	BASIN	CB818	72	44.99	144	33.18	76	4	15	18	744	X	X	STD
CANADA	BASIN	CB820	72	45.88	144	26.17	76	4	16	18	744	X	X	STD
CANADA	BASIN	CB822	72	45.52	144	26.15	76	4	17	18	743	X	X	STD
CANADA	BASIN	CB824	72	45.50	144	27.26	76	4	18	6	744	X	X	STD
CANADA	BASIN	CB826	72	45.40	144	29.11	76	4	18	18	993	X	X	STD

CANADA	BASIN	CB828	72	45.08	144	34.19	76	4	19	6	744	X	X	STD
CANADA	BASIN	CB830	72	44.69	144	37.49	76	4	19	18	743	X	X	STD
CANADA	BASIN	CB832	72	44.03	144	42.31	76	4	20	6	744	X	X	STD
CANADA	BASIN	CB834	72	43.91	144	43.25	76	4	20	18	744	X	X	STD
CANADA	BASIN	CB836	72	43.60	144	48.07	76	4	21	6	743	X	X	STD
CANADA	BASIN	CB838	72	43.57	144	48.63	76	4	21	18	744	X	X	STD
CANADA	BASIN	CB840	72	43.52	144	52.98	76	4	22	6	744	X	X	STD
CANADA	BASIN	CB842	72	43.51	144	52.97	76	4	22	18	744	X	X	STD
CANADA	BASIN	CB844	72	43.53	144	53.30	76	4	23	6	744	X	X	STD
CANADA	BASIN	CB846	72	43.58	144	53.75	76	4	23	18	744	X	X	STD
CANADA	BASIN	CB848	72	43.69	144	57.79	76	4	24	18	744	X	X	STD
CANADA	BASIN	CB849	72	44.21	145	3.30	76	4	25	6	743	X	X	STD
CANADA	BASIN	CB852	72	44.90	145	6.95	76	4	25	18	247	X	X	STD
CANADA	BASIN	BF 1	77	16.99	143	30.88	75	5	10	19	729	X	X	STD
CANADA	BASIN	BF 2	77	13.30	143	23.24	75	5	11	20	730	X	X	STD
CANADA	BASIN	BF 3	77	8.46	143	23.36	75	5	13	1	732	X	X	STD
CANADA	BASIN	BF 4	77	5.09	143	25.78	75	5	13	19	730	X	X	STD
CANADA	BASIN	BF 5	77	1.06	143	12.87	75	5	14	21	731	X	X	STD
CANADA	BASIN	BF 6	76	57.16	143	3.42	75	5	15	18	730	X	X	STD
CANADA	BASIN	BF 7	76	56.06	143	3.44	75	5	16	18	731	X	X	STD
CANADA	BASIN	BF 8	76	59.10	143	14.76	75	5	17	18	728	X	X	STD
CANADA	BASIN	BF 9	76	59.59	143	33.49	75	5	18	18	729	X	X	STD
CANADA	BASIN	BF 10	76	56.93	143	45.47	75	5	19	18	729	X	X	STD
CANADA	BASIN	BF 11	76	55.00	143	47.89	75	5	20	18	731	X	X	STD
CANADA	BASIN	BF 12	76	55.04	143	40.64	75	5	21	18	731	X	X	STD
CANADA	BASIN	BF 13	76	57.17	143	29.38	75	5	22	18	727	X	X	STD
CANADA	BASIN	BF 14	76	57.37	143	18.76	75	5	23	18	729	X	X	STD
CANADA	BASIN	BF 15	76	56.26	143	13.72	75	5	24	18	729	X	X	STD
CANADA	BASIN	BF 16	76	57.29	143	12.26	75	5	25	18	729	X	X	STD
CANADA	BASIN	BF 17	76	58.04	143	25.31	75	5	26	18	729	X	X	STD
CANADA	BASIN	BF 18	76	58.21	143	45.62	75	5	27	18	738	X	X	STD
CANADA	BASIN	BF 19	77	0.10	144	8.12	75	5	28	18	728	X	X	STD
CANADA	BASIN	BF 20	77	3.84	144	32.15	75	5	29	23	728	X	X	STD
CANADA	BASIN	BF 21	77	5.66	144	43.43	75	5	30	18	747	X	X	STD
CANADA	BASIN	BF 22	77	6.32	144	52.57	75	5	31	18	730	X	X	STD
CANADA	BASIN	BF 23	77	6.29	145	5.32	75	6	1	18	752	X	X	STD
CANADA	BASIN	BF 24	77	6.26	145	16.54	75	6	2	18	729	X	X	STD
CANADA	BASIN	BF 25	77	6.97	145	26.74	75	6	3	18	730	X	X	STD
CANADA	BASIN	BF 26	77	7.40	145	42.47	75	6	4	18	735	X	X	STD
CANADA	BASIN	BF 27	77	6.17	145	57.07	75	6	5	18	735	X	X	STD
CANADA	BASIN	BF 28	77	3.97	146	8.78	75	6	6	18	733	X	X	STD
CANADA	BASIN	BF 29	77	1.68	146	18.87	75	6	7	18	731	X	X	STD
CANADA	BASIN	BF 30	76	57.92	146	24.25	75	6	8	18	200	X	X	STD
CANADA	BASIN	BF 31	76	54.25	146	21.28	75	6	9	18	729	X	X	STD
CANADA	BASIN	BF 32	76	52.52	146	15.02	75	6	10	18	731	X	X	STD
CANADA	BASIN	BF 33	76	51.69	146	9.91	75	6	11	18	731	X	X	STD
CANADA	BASIN	BF 34	76	49.61	146	8.20	75	6	12	18	731	X	X	STD
CANADA	BASIN	BF 35	76	48.05	146	13.95	75	6	13	18	731	X	X	STD
CANADA	BASIN	BF 36	76	47.74	146	15.88	75	6	14	18	730	X	X	STD
CANADA	BASIN	BF 37	76	48.65	146	19.73	75	6	15	18	732	X	X	STD
CANADA	BASIN	BF 38	76	48.39	146	24.83	75	6	16	18	731	X	X	STD
CANADA	BASIN	BF 39	76	51.53	146	38.75	75	6	17	18	732	X	X	STD
CANADA	BASIN	BF 40	76	49.72	147	0.44	75	6	18	18	732	X	X	STD
CANADA	BASIN	BF 41	76	46.33	147	7.54	75	6	19	18	732	X	X	STD
CANADA	BASIN	BF 42	76	44.96	147	12.91	75	6	20	18	730	X	X	STD
CANADA	BASIN	BF 43	76	44.61	147	13.27	75	6	21	18	732	X	X	STD
CANADA	BASIN	BF 44	76	48.40	147	14.20	75	6	22	18	731	X	X	STD
CANADA	BASIN	BF 45	76	49.84	147	23.15	75	6	23	18	732	X	X	STD
CANADA	BASIN	BF 46	76	50.21	147	28.79	75	6	24	18	732	X	X	STD
CANADA	BASIN	BF 47	76	49.00	147	19.57	75	6	25	18	731	X	X	STD
CANADA	BASIN	BF 48	76	48.41	147	10.03	75	6	26	18	733	X	X	STD
CANADA	BASIN	BF 49	76	49.84	147	12.90	75	6	27	18	730	X	X	STD
CANADA	BASIN	BF 50	76	50.55	146	57.25	75	6	28	18	731	X	X	STD
CANADA	BASIN	BF 51	76	48.14	146	35.59	75	6	29	18	730	X	X	STD
CANADA	BASIN	BF 52	76	53.20	146	28.87	75	6	30	18	731	X	X	STD
CANADA	BASIN	BF 53	76	54.53	146	12.27	75	7	1	18	732	X	X	STD
CANADA	BASIN	BF 54	76	53.28	146	5.51	75	7	2	18	727	X	X	STD
CANADA	BASIN	BF 55	76	54.20	145	38.98	75	7	3	18	731	X	X	STD
CANADA	BASIN	BF 56	76	52.63	145	18.83	75	7	4	18	732	X	X	STD
CANADA	BASIN	BF 57	76	47.11	144	53.35	75	7	5	18	730	X	X	STD
CANADA	BASIN	BF 58	76	42.04	144	31.34	75	7	6	18	732	X	X	STD
CANADA	BASIN	BF 59	76	43.31	144	8.73	75	7	7	18	731	X	X	STD
CANADA	BASIN	BF 60	76	39.91	143	54.21	75	7	8	18	729	X	X	STD
CANADA	BASIN	BF 61	76	42.12	143	41.67	75	7	9	18	731	X	X	STD
CANADA	BASIN	BF 62	76	38.87	143	2.38	75	7	10	18	729	X	X	STD
CANADA	BASIN	BF 63	76	36.05	142	50.20	75	7	11	18	731	X	X	STD
CANADA	BASIN	BF 64	76	36.24	142	46.61	75	7	12	18	731	X	X	STD
CANADA	BASIN	BF 65	76	37.52	142	50.87	75	7	13	18	730	X	X	STD
CANADA	BASIN	BF 66	76	37.54	142	48.28	75	7	14	18	733	X	X	STD
CANADA	BASIN	BF 67	76	35.15	142	51.97	75	7	15	18	731	X	X	STD
CANADA	BASIN	BF 68	76	28.04	142	46.21	75	7	16	19	731	X	X	STD
CANADA	BASIN	BF 69	76	24.53	142	40.51	75	7	17	18	731	X	X	STD
CANADA	BASIN	BF 70	76	20.31	142	35.71	75	7	18	18	729	X	X	STD

CANADA BASIN	BF 71	76	13.73	142	38.59	75	7	19	18	730	X	X	STD
CANADA BASIN	BF 72	76	7.52	142	31.96	75	7	20	18	733	X	X	STD
CANADA BASIN	BF 73	75	59.74	142	35.29	75	7	21	18	731	X	X	STD
CANADA BASIN	BF 74	75	53.08	142	37.03	75	7	22	18	730	X	X	STD
CANADA BASIN	BF 75	75	48.26	142	41.90	75	7	23	18	731	X	X	STD
CANADA BASIN	BF 76	75	44.86	142	48.04	75	7	24	18	731	X	X	STD
CANADA BASIN	BF 77	75	42.43	142	53.61	75	7	25	18	731	X	X	STD
CANADA BASIN	BF 78	75	40.48	142	56.87	75	7	26	18	728	X	X	STD
CANADA BASIN	BF 79	75	38.59	142	55.93	75	7	27	18	731	X	X	STD
CANADA BASIN	BF 80	75	36.32	142	50.77	75	7	28	18	731	X	X	STD
CANADA BASIN	BF 81	75	33.27	142	24.05	75	7	29	18	730	X	X	STD
CANADA BASIN	BF 82	75	25.81	142	3.23	75	7	30	18	731	X	X	STD
CANADA BASIN	BF 83	75	20.06	141	41.20	75	7	31	18	729	X	X	STD
CANADA BASIN	BF 84	75	14.61	141	19.85	75	8	1	18	730	X	X	STD
CANADA BASIN	BF 86	75	10.36	141	10.39	75	8	2	18	731	X	X	STD
CANADA BASIN	BF 88	75	7.28	140	59.58	75	8	3	18	731	X	X	STD
CANADA BASIN	BF 90	75	6.04	140	38.75	75	8	4	21	728	X	X	STD
CANADA BASIN	BF 92	75	6.77	140	10.92	75	8	6	4	728	X	X	STD
CANADA BASIN	BF 94	75	5.53	140	7.43	75	8	6	18	733	X	X	STD
CANADA BASIN	BF 96	75	4.70	139	59.57	75	8	7	18	728	X	X	STD
CANADA BASIN	BF 97	75	4.66	139	47.50	75	8	8	18	732	X	X	STD
CANADA BASIN	BF 98	75	2.62	139	11.37	75	8	9	18	731	X	X	STD
CANADA BASIN	BF 99	74	57.28	138	49.06	75	8	10	18	733	X	X	STD
CANADA BASIN	BF100	74	53.91	138	30.65	75	8	11	18	731	X	X	STD
CANADA BASIN	BF101	74	50.48	138	5.90	75	8	12	18	732	X	X	STD
CANADA BASIN	BF102	74	53.98	137	46.93	75	8	13	18	727	X	X	STD
CANADA BASIN	BF103	74	50.36	137	15.41	75	8	14	18	727	X	X	STD
CANADA BASIN	BF104	74	49.82	137	8.12	75	8	15	18	728	X	X	STD
CANADA BASIN	BF105	74	48.29	137	3.25	75	8	16	18	731	X	X	STD
CANADA BASIN	BF106	74	43.10	137	7.94	75	8	17	18	731	X	X	STD
CANADA BASIN	BF107	74	40.53	137	12.83	75	8	18	18	731	X	X	STD
CANADA BASIN	BF108	74	39.00	137	22.78	75	8	19	18	676	X	X	STD
CANADA BASIN	BF109	74	40.96	137	46.88	75	8	20	18	731	X	X	STD
CANADA BASIN	BF110	74	42.04	138	6.70	75	8	21	18	732	X	X	STD
CANADA BASIN	BF112	74	40.05	138	11.60	75	8	22	18	730	X	X	STD
CANADA BASIN	BF114	74	35.86	138	10.00	75	8	23	18	738	X	X	STD
CANADA BASIN	BF116	74	35.79	138	14.04	75	8	24	18	733	X	X	STD
CANADA BASIN	BF118	74	34.43	137	56.14	75	8	25	18	733	X	X	STD
CANADA BASIN	BF120	74	35.95	137	54.50	75	8	26	18	733	X	X	STD
CANADA BASIN	BF122	74	33.06	137	30.74	75	8	27	18	730	X	X	STD
CANADA BASIN	BF124	74	24.58	136	59.27	75	8	28	18	732	X	X	STD
CANADA BASIN	BF126	74	22.21	136	40.33	75	8	30		731	X	X	STD
CANADA BASIN	BF128	74	16.54	136	35.06	75	8	30	18	733	X	X	STD
CANADA BASIN	BF130	74	10.82	136	30.99	75	8	31	18	737	X	X	STD
CANADA BASIN	BF132	74	3.47	136	13.08	75	9	1	18	735	X	X	STD
CANADA BASIN	BF134	74	0.66	136	13.29	75	9	2	18	729	X	X	STD
CANADA BASIN	BF136	74	0.92	136	13.02	75	9	3	18	733	X	X	STD
CANADA BASIN	BF138	74	1.52	136	5.10	75	9	4	18	734	X	X	STD
CANADA BASIN	BF140	73	58.79	136	6.16	75	9	5	18	735	X	X	STD
CANADA BASIN	BF142	73	54.37	136	17.95	75	9	6	18	734	X	X	STD
CANADA BASIN	BF144	73	52.00	136	28.57	75	9	7	18	149	X	X	STD
CANADA BASIN	BF146	73	50.22	136	15.88	75	9	8	18	733	X	X	STD
CANADA BASIN	BF150	73	48.92	135	21.28	75	9	10	18	731	X	X	STD
CANADA BASIN	BF152	73	49.90	135	3.11	75	9	11	18	733	X	X	STD
CANADA BASIN	BF154	73	50.68	134	47.65	75	9	12	18	729	X	X	STD
CANADA BASIN	BF156	73	50.53	134	32.08	75	9	13	18	481	X	X	STD
CANADA BASIN	BF158	73	49.10	134	21.58	75	9	14	18	731	X	X	STD
CANADA BASIN	BF160	73	48.38	134	32.18	75	9	15	18	731	X	X	STD
CANADA BASIN	BF162	73	49.41	134	41.47	75	9	16	18	730	X	X	STD
CANADA BASIN	BF164	73	50.73	134	45.06	75	9	17	18	483	X	X	STD
CANADA BASIN	BF166	73	54.19	134	39.23	75	9	18	18	731	X	X	STD
CANADA BASIN	BF168	73	50.55	134	58.46	75	9	19	18	239	X	X	STD
CANADA BASIN	BF170	73	47.81	134	57.23	75	9	20	18	729	X	X	STD
CANADA BASIN	BF172	73	46.61	134	33.28	75	9	21	18	729	X	X	STD
CANADA BASIN	BF174	73	42.88	134	12.50	75	9	22	18	730	X	X	STD
CANADA BASIN	BF176	73	40.46	134	24.44	75	9	23	18	730	X	X	STD
CANADA BASIN	BF178	73	36.34	134	11.39	75	9	24	18	727	X	X	STD
CANADA BASIN	BF180	73	30.79	134	0.16	75	9	25	18	730	X	X	STD
CANADA BASIN	BF182	73	26.56	133	59.88	75	9	26	18	730	X	X	STD
CANADA BASIN	BF184	73	23.69	133	55.08	75	9	27	18	731	X	X	STD
CANADA BASIN	BF186	73	21.70	133	50.12	75	9	28	18	741	X	X	STD
CANADA BASIN	BF188	73	20.66	133	51.68	75	9	29	18	741	X	X	STD
CANADA BASIN	BF190	73	21.98	134	0.70	75	9	30	18	740	X	X	STD
CANADA BASIN	BF192	73	23.52	134	20.38	75	10	1	18	732	X	X	STD
CANADA BASIN	BF194	73	24.24	134	36.31	75	10	2	18	732	X	X	STD
CANADA BASIN	BF198	73	30.16	135	3.57	75	10	4	18	729	X	X	STD
CANADA BASIN	BF200	73	32.18	135	14.44	75	10	5	18	742	X	X	STD
CANADA BASIN	BF202	73	32.99	135	21.99	75	10	6	18	740	X	X	STD
CANADA BASIN	BF204	73	30.76	135	25.53	75	10	7	18	728	X	X	STD
CANADA BASIN	BF206	73	27.33	135	23.74	75	10	8	18	730	X	X	STD
CANADA BASIN	BF208	73	25.92	135	21.61	75	10	9	18	732	X	X	STD
CANADA BASIN	BF210	73	24.70	135	20.63	75	10	10	18	730	X	X	STD
CANADA BASIN	BF212	73	22.72	135	24.20	75	10	11	18	742	X	X	STD

CANADA	BASIN	BF214	73	22.29	135	9.93	75	10	12	18	731	X	X	STD
CANADA	BASIN	BF216	73	21.41	135	15.71	75	10	13	18	731	X	X	STD
CANADA	BASIN	BF218	73	18.89	135	26.15	75	10	14	18	731	X	X	STD
CANADA	BASIN	BF220	73	21.11	135	42.71	75	10	15	18	730	X	X	STD
CANADA	BASIN	BF222	73	24.23	136	0.33	75	10	16	18	729	X	X	STD
CANADA	BASIN	BF224	73	23.47	136	0.85	75	10	17	18	741	X	X	STD
CANADA	BASIN	BF226	73	20.47	136	4.32	75	10	18	18	741	X	X	STD
CANADA	BASIN	BF228	73	20.06	136	20.72	75	10	19	18	740	X	X	STD
CANADA	BASIN	BF230	73	21.24	136	30.31	75	10	20	18	728	X	X	STD
CANADA	BASIN	BF232	73	21.89	136	34.01	75	10	21	18	731	X	X	STD
CANADA	BASIN	BF234	73	21.66	136	36.13	75	10	22	18	729	X	X	STD
CANADA	BASIN	BF236	73	21.12	136	38.52	75	10	23	18	731	X	X	STD
CANADA	BASIN	BF238	73	29.85	136	54.11	75	10	24	18	730	X	X	STD
CANADA	BASIN	BF240	73	29.54	136	47.75	75	10	25	18	730	X	X	STD
CANADA	BASIN	BF242	73	25.87	136	32.20	75	10	26	18	731	X	X	STD
CANADA	BASIN	BF244	73	22.54	136	16.88	75	10	27	18	731	X	X	STD
CANADA	BASIN	BF246	73	18.13	136	13.31	75	10	28	18	730	X	X	STD
CANADA	BASIN	BF248	73	9.22	136	26.33	75	10	29	18	727	X	X	STD
CANADA	BASIN	BF250	73	0.62	136	22.82	75	10	30	18	730	X	X	STD
CANADA	BASIN	BF252	72	57.71	136	23.06	75	10	31	18	730	X	X	STD
CANADA	BASIN	BF254	72	56.98	136	18.72	75	11	1	18	730	X	X	STD
CANADA	BASIN	BF260	72	57.68	136	20.05	75	11	4	18	730	X	X	STD
CANADA	BASIN	BF262	72	58.70	136	21.33	75	11	5	18	159	X	X	STD
CANADA	BASIN	BF264	72	59.48	136	16.99	75	11	6	18	734	X	X	STD
CANADA	BASIN	BF266	73	1.02	136	10.48	75	11	7	18	732	X	X	STD
CANADA	BASIN	BF268	73	3.01	136	12.54	75	11	8	18	731	X	X	STD
CANADA	BASIN	BF270	73	2.72	136	7.60	75	11	9	18	739	X	X	STD
CANADA	BASIN	BF272	73	1.14	136	5.19	75	11	10	18	729	X	X	STD
CANADA	BASIN	BF274	73	0.07	136	3.72	75	11	11	18	730	X	X	STD
CANADA	BASIN	BF276	72	59.75	136	7.46	75	11	12	18	732	X	X	STD
CANADA	BASIN	BF278	72	57.69	136	24.65	75	11	13	18	732	X	X	STD
CANADA	BASIN	BF280	72	52.70	136	34.33	75	11	14	18	732	X	X	STD
CANADA	BASIN	BF282	72	49.61	136	27.71	75	11	15	18	729	X	X	STD
CANADA	BASIN	BF284	72	47.75	136	18.42	75	11	16	18	731	X	X	STD
CANADA	BASIN	BF288	72	47.58	136	16.45	75	11	18	18	732	X	X	STD
CANADA	BASIN	BF290	72	47.57	136	16.36	75	11	19	18	731	X	X	STD
CANADA	BASIN	BF292	72	48.89	136	19.16	75	11	20	18	732	X	X	STD
CANADA	BASIN	BF294	72	53.80	136	23.67	75	11	21	18	730	X	X	STD
CANADA	BASIN	BF296	73	1.34	136	29.69	75	11	22	18	734	X	X	STD
CANADA	BASIN	BF298	72	55.51	136	59.77	75	12	20	18	730	X	X	STD
CANADA	BASIN	BF299	72	55.33	136	58.40	75	12	21	18	731	X	X	STD
CANADA	BASIN	BF300	72	55.76	137	1.01	75	12	22	18	732	X	X	STD
CANADA	BASIN	BF302	72	56.45	137	5.56	75	12	23	18	732	X	X	STD
CANADA	BASIN	BF304	72	55.53	137	3.91	75	12	24	18	731	X	X	STD
CANADA	BASIN	BF306	72	54.86	137	2.04	75	12	25	18	733	X	X	STD
CANADA	BASIN	BF308	72	54.79	137	2.09	75	12	26	18	730	X	X	STD
CANADA	BASIN	BF310	72	55.27	137	8.06	75	12	27	18	733	X	X	STD
CANADA	BASIN	BF312	72	57.28	137	21.98	75	12	28	18	733	X	X	STD
CANADA	BASIN	BF313	72	57.39	137	19.37	75	12	29	18	730	X	X	STD
CANADA	BASIN	BF314	72	55.42	137	9.10	75	12	30	18	732	X	X	STD
CANADA	BASIN	BF316	72	55.90	137	10.27	75	12	31	18	731	X	X	STD
CANADA	BASIN	BF318	72	59.22	137	20.53	76	1	1	18	733	X	X	STD
CANADA	BASIN	BF320	72	59.28	137	22.57	76	1	2	18	750	X	X	STD
CANADA	BASIN	BF322	73	2.99	137	35.64	76	1	3	18	730	X	X	STD
CANADA	BASIN	BF324	73	8.66	137	43.52	76	1	4	18	730	X	X	STD
CANADA	BASIN	BF326	73	11.27	137	51.14	76	1	5	18	735	X	X	STD
CANADA	BASIN	BF328	73	10.30	137	49.69	76	1	6	18	733	X	X	STD
CANADA	BASIN	BF330	73	11.03	137	49.02	76	1	7	18	733	X	X	STD
CANADA	BASIN	BF332	73	10.86	137	51.09	76	1	8	18	731	X	X	STD
CANADA	BASIN	BF334	73	8.12	137	50.38	76	1	9	19	729	X	X	STD
CANADA	BASIN	BF336	73	5.57	137	39.82	76	1	10	18	730	X	X	STD
CANADA	BASIN	BF338	73	2.46	137	21.79	76	1	11	18	730	X	X	STD
CANADA	BASIN	BF340	72	58.49	137	11.34	76	1	12	18	730	X	X	STD
CANADA	BASIN	BF342	72	58.51	137	11.27	76	1	13	18	729	X	X	STD
CANADA	BASIN	BF344	72	58.76	137	12.04	76	1	14	18	735	X	X	STD
CANADA	BASIN	BF346	73	0.80	137	15.16	76	1	15	18	731	X	X	STD
CANADA	BASIN	BF348	72	59.00	137	8.98	76	1	16	18	732	X	X	STD
CANADA	BASIN	BF350	72	58.88	137	10.91	76	1	17	18	730	X	X	STD
CANADA	BASIN	BF352	72	58.00	137	11.59	76	1	18	18	730	X	X	STD
CANADA	BASIN	BF354	72	57.28	137	9.23	76	1	19	18	731	X	X	STD
CANADA	BASIN	BF356	72	56.75	137	3.88	76	1	20	18	731	X	X	STD
CANADA	BASIN	BF358	72	56.47	137	5.28	76	1	21	18	730	X	X	STD
CANADA	BASIN	BF360	72	55.41	137	13.34	76	1	22	18	732	X	X	STD
CANADA	BASIN	BF362	72	54.22	137	14.39	76	1	23	18	732	X	X	STD
CANADA	BASIN	BF364	72	53.49	137	10.86	76	1	24	18	732	X	X	STD
CANADA	BASIN	BF366	72	53.23	137	10.16	76	1	25	18	737	X	X	STD
CANADA	BASIN	BF368	72	53.15	137	10.16	76	1	26	18	731	X	X	STD
CANADA	BASIN	BF370	72	53.15	137	10.14	76	1	27	18	728	X	X	STD
CANADA	BASIN	BF372	72	53.15	137	10.21	76	1	28	18	730	X	X	STD
CANADA	BASIN	BF374	72	53.17	137	10.21	76	1	29	18	731	X	X	STD
CANADA	BASIN	BF376	72	54.62	137	21.03	76	1	30	18	730	X	X	STD
CANADA	BASIN	BF378	72	57.01	137	43.48	76	1	31	18	728	X	X	STD
CANADA	BASIN	BF380	72	58.05	137	48.86	76	2	1	18	728	X	X	STD

CANADA	BASIN	BF382	72	57.37	137	44.69	76	2	2	18	731	X	X	STD
CANADA	BASIN	BF384	72	56.79	137	36.74	76	2	3	18	732	X	X	STD
CANADA	BASIN	BF386	72	56.10	137	36.13	76	2	4	18	729	X	X	STD
CANADA	BASIN	BF388	72	55.77	137	36.73	76	2	5	18	732	X	X	STD
CANADA	BASIN	BF400	72	47.18	136	57.98	76	2	11	18	731	X	X	STD
CANADA	BASIN	BF402	72	47.18	136	57.95	76	2	12	18	731	X	X	STD
CANADA	BASIN	BF404	72	47.17	136	57.87	76	2	13	18	729	X	X	STD
CANADA	BASIN	BF406	72	47.17	136	57.99	76	2	14	18	732	X	X	STD
CANADA	BASIN	BF408	72	47.17	136	58.06	76	2	15	18	733	X	X	STD
CANADA	BASIN	BF410	72	47.15	136	57.97	76	2	16	18	730	X	X	STD
CANADA	BASIN	BF412	72	47.16	136	57.95	76	2	17	18	731	X	X	STD
CANADA	BASIN	BF414	72	47.16	136	57.98	76	2	18	18	731	X	X	STD
CANADA	BASIN	BF416	72	47.15	136	58.00	76	2	19	18	730	X	X	STD
CANADA	BASIN	BF418	72	47.17	136	58.03	76	2	20	18	731	X	X	STD
CANADA	BASIN	BF420	72	47.16	136	58.00	76	2	21	18	731	X	X	STD
CANADA	BASIN	BF421	72	47.16	136	57.90	76	2	22	18	733	X	X	STD
CANADA	BASIN	BF422	72	47.17	136	57.99	76	2	23	18	732	X	X	STD
CANADA	BASIN	BF423	72	47.16	136	57.94	76	2	24	18	731	X	X	STD
CANADA	BASIN	BF424	72	47.15	136	58.10	76	2	25	18	729	X	X	STD
CANADA	BASIN	BF425	72	47.15	136	58.12	76	2	26	18	730	X	X	STD
CANADA	BASIN	BF426	72	48.07	136	56.81	76	2	27	18	732	X	X	STD
CANADA	BASIN	BF427	72	47.81	136	56.23	76	2	28	18	729	X	X	STD
CANADA	BASIN	BF428	72	48.58	136	58.60	76	2	29	18	731	X	X	STD
CANADA	BASIN	BF429	72	50.12	137	2.43	76	3	1	18	732	X	X	STD
CANADA	BASIN	BF430	72	49.69	137	0.91	76	3	2	18	731	X	X	STD
CANADA	BASIN	BF431	72	48.82	137	1.01	76	3	3	18	175	X	X	STD
CANADA	BASIN	BF432	72	49.78	137	15.27	76	3	4	18	729	X	X	STD
CANADA	BASIN	BF433	72	48.24	137	16.51	76	3	5	18	730	X	X	STD
CANADA	BASIN	BF434	72	47.48	137	12.81	76	3	6	18	728	X	X	STD
CANADA	BASIN	BF435	72	47.49	137	13.86	76	3	7	18	730	X	X	STD
CANADA	BASIN	BF436	72	47.94	137	21.76	76	3	8	18	727	X	X	STD
CANADA	BASIN	BF438	72	48.10	137	23.37	76	3	9	18	484	X	X	STD
CANADA	BASIN	BF440	72	48.10	137	23.36	76	3	10	18	730	X	X	STD
CANADA	BASIN	BF442	72	48.10	137	23.29	76	3	11	18	725	X	X	STD
CANADA	BASIN	BF444	72	48.10	137	23.56	76	3	12	18	729	X	X	STD
CANADA	BASIN	BF446	72	48.09	137	23.34	76	3	13	18	728	X	X	STD
CANADA	BASIN	BF447	72	47.42	137	20.30	76	3	14	18	728	X	X	STD
CANADA	BASIN	BF448	72	45.35	137	13.77	76	3	15	18	729	X	X	STD
CANADA	BASIN	BF450	72	45.05	137	13.29	76	3	16	18	727	X	X	STD
CANADA	BASIN	BF452	72	43.42	137	10.27	76	3	17	18	729	X	X	STD
CANADA	BASIN	BF454	72	43.39	137	9.84	76	3	18	18	728	X	X	STD
CANADA	BASIN	BF456	72	43.39	137	9.87	76	3	19	18	728	X	X	STD
CANADA	BASIN	BF458	72	43.39	137	9.81	76	3	20	18	728	X	X	STD
CANADA	BASIN	BF460	72	43.39	137	9.94	76	3	21	18	733	X	X	STD
CANADA	BASIN	BF462	72	43.03	137	9.35	76	3	22	18	728	X	X	STD
CANADA	BASIN	BF464	72	43.03	137	9.30	76	3	23	18	727	X	X	STD
CANADA	BASIN	BF466	72	43.08	137	9.20	76	3	24	18	729	X	X	STD
CANADA	BASIN	BF468	72	43.08	137	8.66	76	3	25	18	729	X	X	STD
CANADA	BASIN	BF470	72	43.04	137	9.25	76	3	26	18	728	X	X	STD
CANADA	BASIN	BF472	72	43.02	137	9.12	76	3	27	18	676	X	X	STD
CANADA	BASIN	BF474	72	43.03	137	9.06	76	3	28	18	728	X	X	STD
CANADA	BASIN	BF476	72	43.04	137	9.29	76	3	29	18	728	X	X	STD
CANADA	BASIN	BF478	72	43.04	137	8.99	76	3	30	18	727	X	X	STD
CANADA	BASIN	BF480	72	43.05	137	9.16	76	3	31	18	727	X	X	STD
CANADA	BASIN	BF482	72	43.05	137	9.35	76	4	1	18	728	X	X	STD
CANADA	BASIN	BF484	72	43.03	137	9.22	76	4	2	18	728	X	X	STD
CANADA	BASIN	BF486	72	43.04	137	9.28	76	4	3	18	733	X	X	STD
CANADA	BASIN	BF488	72	43.04	137	9.18	76	4	4	18	726	X	X	STD
CANADA	BASIN	BF490	72	43.04	137	9.42	76	4	5	18	728	X	X	STD
CANADA	BASIN	BF492	72	43.06	137	9.39	76	4	6	18	730	X	X	STD
CANADA	BASIN	BF494	72	43.05	137	9.38	76	4	7	18	728	X	X	STD
CANADA	BASIN	BF496	72	43.06	137	9.36	76	4	8	18	676	X	X	STD
CANADA	BASIN	BF498	72	46.95	137	15.51	76	4	9	18	727	X	X	STD
CANADA	BASIN	BF500	72	46.61	137	19.19	76	4	10	18	728	X	X	STD
CANADA	BASIN	BF502	72	45.68	137	19.67	76	4	11	18	726	X	X	STD
CANADA	BASIN	BF504	72	46.96	137	32.08	76	4	12	18	727	X	X	STD
CANADA	BASIN	BF506	72	46.56	137	30.39	76	4	13	18	727	X	X	STD
CANADA	BASIN	BF508	72	47.11	137	30.38	76	4	14	18	725	X	X	STD
CANADA	BASIN	BF510	72	46.48	137	18.32	76	4	15	18	729	X	X	STD
CANADA	BASIN	BF512	72	47.11	137	14.72	76	4	16	18	728	X	X	STD
CANADA	BASIN	BF514	72	47.18	137	16.27	76	4	17	18	728	X	X	STD
CANADA	BASIN	BF516	72	47.29	137	19.12	76	4	18	18	726	X	X	STD
CANADA	BASIN	BF518	72	46.63	137	25.95	76	4	19	18	725	X	X	STD
CANADA	BASIN	BF520	72	46.00	137	25.50	76	4	20	18	676	X	X	STD
CANADA	BASIN	SB 1	76	5.96	147	24.45	75	5	16	23	1090	X	X	STD
CANADA	BASIN	SB 3	76	9.11	147	38.57	75	5	17	18	353	X	X	STD
CANADA	BASIN	SB 5	76	9.65	148	2.33	75	5	18	18	553	X	X	STD
CANADA	BASIN	SB 7	76	8.01	148	22.48	75	5	19	18	554	X	X	STD
CANADA	BASIN	SB 9	76	6.41	148	21.92	75	5	20	18	555	X	X	STD
CANADA	BASIN	SB 11	76	6.49	148	18.35	75	5	21	18	551	X	X	STD
CANADA	BASIN	SB 13	76	8.72	148	11.89	75	5	22	18	546	X	X	STD
CANADA	BASIN	SB 15	76	9.34	148	3.55	75	5	23	18	548	X	X	STD
CANADA	BASIN	SB 17	76	8.65	147	58.75	75	5	24	18	549	X	X	STD

CANADA BASIN	SB 19	76	10.25	148	0.40	75	5	25	18	551		X	X	STD
CANADA BASIN	SB 21	76	10.26	148	15.94	75	5	26	18	541		X	X	STD
CANADA BASIN	SB 24	76	10.76	148	38.76	75	5	27	18	549		X	X	STD
CANADA BASIN	SB 26	76	13.65	149	2.99	75	5	28	18	538		X	X	STD
CANADA BASIN	SB 28	76	16.90	149	21.26	75	5	29	18	545		X	X	STD
CANADA BASIN	SB 30	76	20.52	149	38.16	75	5	30	18	541		X	X	STD
CANADA BASIN	SB 32	76	22.64	149	47.36	75	5	31	18	541		X	X	STD
CANADA BASIN	SB 34	76	23.54	149	57.92	75	6	1	18	547		X	X	STD
CANADA BASIN	SB 36	76	24.32	150	9.79	75	6	2	18	721		X	X	STD
CANADA BASIN	SB 38	76	25.34	150	20.45	75	6	3	18	721		X	X	STD
CANADA BASIN	SB 40	76	26.42	150	38.48	75	6	4	18	724		X	X	STD
CANADA BASIN	SB 42	76	25.97	150	54.94	75	6	5	18	723		X	X	STD
CANADA BASIN	SB 44	76	25.00	151	5.54	75	6	6	18	723		X	X	STD
CANADA BASIN	SB 46	76	23.54	151	14.27	75	6	7	18	722		X	X	STD
CANADA BASIN	SB 48	76	21.62	151	19.06	75	6	8	18	723		X	X	STD
CANADA BASIN	SB 50	76	19.59	151	18.10	75	6	9	18	724		X	X	STD
CANADA BASIN	SB 52	76	18.71	151	15.71	75	6	10	18	723		X	X	STD
CANADA BASIN	SB 54	76	18.35	151	10.80	75	6	11	18	719		X	X	STD
CANADA BASIN	SB 56	76	19.16	151	14.29	75	6	12	19	722		X	X	STD
CANADA BASIN	SB 58	76	18.73	151	22.82	75	6	13	18	721		X	X	STD
CANADA BASIN	SB 60	76	19.69	151	28.82	75	6	14	18	721		X	X	STD
CANADA BASIN	SB 62	76	20.95	151	34.13	75	6	15	18	721		X	X	STD
CANADA BASIN	SB 64	76	21.07	151	38.66	75	6	16	18	721		X	X	STD
CANADA BASIN	SB 66	76	24.53	151	59.66	75	6	17	18	720		X	X	STD
CANADA BASIN	SB 68	76	22.10	152	14.03	75	6	18	18	719		X	X	STD
CANADA BASIN	SB 70	76	20.49	152	19.88	75	6	19	18	722		X	X	STD
CANADA BASIN	SB 72	76	22.29	152	29.18	75	6	20	18	722		X	X	STD
CANADA BASIN	SB 74	76	25.85	152	35.20	75	6	21	18	717		X	X	STD
CANADA BASIN	SB 76	76	29.69	152	37.94	75	6	22	18	725		X	X	STD
CANADA BASIN	SB 78	76	31.73	152	46.64	75	6	23	18	721		X	X	STD
CANADA BASIN	SB 80	76	31.64	152	53.75	75	6	24	18	720		X	X	STD
CANADA BASIN	SB 82	76	31.45	152	42.97	75	6	26		718		X	X	STD
CANADA BASIN	SB 84	76	31.84	152	36.82	75	6	26	18	719		X	X	STD
CANADA BASIN	SB 86	76	34.67	152	37.91	75	6	27	18	719		X	X	STD
CANADA BASIN	SB 88	76	35.75	152	26.59	75	6	28	18	720		X	X	STD
CANADA BASIN	SB 90	76	35.59	152	8.72	75	6	29	18	724		X	X	STD
CANADA BASIN	SB 92	76	39.95	152	5.74	75	6	30	18	719		X	X	STD
CANADA BASIN	SB 94	76	39.85	151	51.18	75	7	1	18	720		X	X	STD
CANADA BASIN	SB 96	76	39.73	151	47.77	75	7	2	18	723		X	X	STD
CANADA BASIN	SB 98	76	41.44	151	19.08	75	7	3	18	724		X	X	STD
CANADA BASIN	SB100	76	38.83	150	56.97	75	7	4	18	717		X	X	STD
CANADA BASIN	SB102	76	34.31	150	36.70	75	7	5	18	710		X	X	STD
CANADA BASIN	SB104	76	30.70	150	12.92	75	7	6	18	719		X	X	STD
CANADA BASIN	SB108	76	30.51	149	36.23	75	7	8	18	720		X	X	STD
CANADA BASIN	SB110	76	30.59	148	51.08	75	7	10	18	720		X	X	STD
CANADA BASIN	SB112	76	29.21	148	43.57	75	7	11	18	717		X	X	STD
CANADA BASIN	SB114	76	34.03	148	50.29	75	7	13	18	719		X	X	STD
CANADA BASIN	SB116	76	34.03	148	50.16	75	7	14	18	719		X	X	STD
CANADA BASIN	SB118	76	32.96	148	56.21	75	7	15	19	720		X	X	STD
CANADA BASIN	SB120	76	29.18	148	52.74	75	7	16	18	711		X	X	STD
CANADA BASIN	SB122	76	26.12	148	45.68	75	7	17	18	719		X	X	STD
CANADA BASIN	SB124	76	23.53	148	42.23	75	7	18	18	720		X	X	STD
CANADA BASIN	SB126	76	19.05	148	46.86	75	7	19	18	721		X	X	STD
CANADA BASIN	SB128	76	15.83	148	45.74	75	7	20	18	720		X	X	STD
CANADA BASIN	SB130	76	7.81	148	51.45	75	7	21	18	719		X	X	STD
CANADA BASIN	SB132	75	49.34	149	27.78	75	7	28	18	729		X	X	STD
CANADA BASIN	SB134	75	43.18	149	3.52	75	7	29	18	719		X	X	STD
CANADA BASIN	SB136	75	35.27	148	52.39	75	7	30	18	720		X	X	STD
CANADA BASIN	SB138	75	25.97	148	16.27	75	8	1	18	720		X	X	STD
CANADA BASIN	SB140	75	23.63	148	8.87	75	8	2	18	720		X	X	STD
CANADA BASIN	SB142	75	22.26	147	58.05	75	8	3	18	720		X	X	STD
CANADA BASIN	SB144	75	23.92	147	39.29	75	8	4	18	720		X	X	STD
CANADA BASIN	SB146	75	25.12	147	12.06	75	8	5	18	720		X	X	STD
CANADA BASIN	SB148	75	22.27	147	2.89	75	8	6	18	721		X	X	STD
CANADA BASIN	SB150	75	20.65	146	58.25	75	8	7	18	721		X	X	STD
CANADA BASIN	SB152	75	21.39	146	44.92	75	8	8	18	720		X	X	STD
CANADA BASIN	SB154	75	17.00	146	2.38	75	8	9	18	721		X	X	STD
CANADA BASIN	SB156	75	7.97	145	50.77	75	8	10	18	720		X	X	STD
CANADA BASIN	SB158	75	1.91	145	36.80	75	8	11	18	720		X	X	STD
CANADA BASIN	SB160	74	59.27	145	12.34	75	8	12	18	720		X	X	STD
CANADA BASIN	SB162	75	3.85	144	50.10	75	8	13	18	720		X	X	STD
CANADA BASIN	SB164	74	59.80	144	19.87	75	8	14	18	720		X	X	STD
CANADA BASIN	SB166	75	2.24	144	13.43	75	8	15	18	720		X	X	STD
CANADA BASIN	SB158	75	3.91	144	5.98	75	8	16	18	719		X	X	STD
CANADA BASIN	SB170	75	0.19	144	10.45	75	8	17	18	722		X	X	STD
CANADA BASIN	SB172	74	59.82	144	12.17	75	8	18	19	721		X	X	STD
CANADA BASIN	SB174	75	0.43	144	22.97	75	8	19	18	721		X	X	STD
CANADA BASIN	SB176	75	3.02	144	45.78	75	8	20	18	721		X	X	STD
CANADA BASIN	SB178	75	3.35	144	56.06	75	8	21	18	719		X	X	STD
CANADA BASIN	SB180	75	1.64	144	51.11	75	8	22	18	719		X	X	STD
CANADA BASIN	SB182	74	57.64	144	41.95	75	8	23	18	719		X	X	STD
CANADA BASIN	SB184	74	57.06	144	34.11	75	8	24	18	719		X	X	STD
CANADA BASIN	SB186	74	57.44	144	9.67	75	8	25	18	721		X	X	STD

CANADA	BASIN	SB188	75	1.98	144	4.51	75	8	26	18	720	X	X	STD
CANADA	BASIN	SB190	74	57.34	143	46.01	75	8	27	18	722	X	X	STD
CANADA	BASIN	SB192	74	49.89	143	14.05	75	8	28	18	722	X	X	STD
CANADA	BASIN	SB194	74	47.81	143	9.53	75	8	29	18	721	X	X	STD
CANADA	BASIN	SB196	74	37.52	142	59.06	75	8	31	18	722	X	X	STD
CANADA	BASIN	SB198	74	31.50	142	36.66	75	9	1	18	720	X	X	STD
CANADA	BASIN	SB200	74	27.43	142	35.35	75	9	2	18	722	X	X	STD
CANADA	BASIN	SB202	74	28.27	142	38.31	75	9	3	18	721	X	X	STD
CANADA	BASIN	SB204	74	28.51	142	39.24	75	9	4	18	722	X	X	STD
CANADA	BASIN	SB206	74	23.90	142	43.46	75	9	5	18	720	X	X	STD
CANADA	BASIN	SB208	74	23.12	143	0.71	75	9	6	18	720	X	X	STD
CANADA	BASIN	SB210	74	21.47	143	7.81	75	9	7	18	721	X	X	STD
CANADA	BASIN	SB212	74	20.63	142	45.07	75	9	8	18	721	X	X	STD
CANADA	BASIN	SB214	74	20.33	142	12.97	75	9	9	18	720	X	X	STD
CANADA	BASIN	SB216	74	18.33	141	48.01	75	9	10	18	720	X	X	STD
CANADA	BASIN	SB218	74	19.76	141	24.35	75	9	11	18	719	X	X	STD
CANADA	BASIN	SB220	74	20.42	140	58.55	75	9	12	18	721	X	X	STD
CANADA	BASIN	SB222	74	18.61	140	42.07	75	9	13	18	720	X	X	STD
CANADA	BASIN	SB224	74	17.05	140	37.09	75	9	14	18	730	X	X	STD
CANADA	BASIN	SB226	74	22.48	141	0.37	75	9	17	18	721	X	X	STD
CANADA	BASIN	SB227	74	23.09	140	48.81	75	9	18	19	719	X	X	STD
CANADA	BASIN	SB228	74	19.93	141	1.33	75	9	19	18	722	X	X	STD
CANADA	BASIN	SB229	74	17.23	141	3.49	75	9	20	18	721	X	X	STD
CANADA	BASIN	SB230	74	19.13	140	28.67	75	9	21	18	721	X	X	STD
CANADA	BASIN	SB231	74	17.11	140	25.51	75	9	22	18	723	X	X	STD
CANADA	BASIN	SB232	74	14.45	140	43.96	75	9	23	18	720	X	X	STD
CANADA	BASIN	SB233	74	8.97	140	26.13	75	9	24	18	720	X	X	STD
CANADA	BASIN	SB234	74	2.68	140	16.72	75	9	25	18	721	X	X	STD
CANADA	BASIN	SB237	74	13.48	141	45.71	75	10	4	18	721	X	X	STD
CANADA	BASIN	SB238	74	15.20	141	55.54	75	10	5	18	737	X	X	STD
CANADA	BASIN	SB239	74	14.65	142	6.71	75	10	6	18	741	X	X	STD
CANADA	BASIN	SB240	74	13.45	142	10.73	75	10	7	18	738	X	X	STD
CANADA	BASIN	SB241	74	11.69	142	10.80	75	10	8	18	740	X	X	STD
CANADA	BASIN	SB242	74	9.44	142	11.84	75	10	9	18	742	X	X	STD
CANADA	BASIN	SB243	74	7.57	142	10.40	75	10	10	18	742	X	X	STD
CANADA	BASIN	SB245	74	6.70	142	5.01	75	10	11	18	737	X	X	STD
CANADA	BASIN	SB247	74	7.25	141	38.75	75	10	12	18	741	X	X	STD
CANADA	BASIN	SB249	74	5.44	141	45.10	75	10	13	18	741	X	X	STD
CANADA	BASIN	SB251	74	4.19	141	53.58	75	10	14	18	741	X	X	STD
CANADA	BASIN	SB253	74	5.61	142	12.55	75	10	15	18	739	X	X	STD
CANADA	BASIN	SB255	74	6.38	142	34.27	75	10	16	18	739	X	X	STD
CANADA	BASIN	SB257	74	2.97	142	34.92	75	10	17	18	685	X	X	STD
CANADA	BASIN	SB259	74	2.60	142	36.73	75	10	18	18	736	X	X	STD
CANADA	BASIN	SB261	74	3.77	142	54.69	75	10	19	18	740	X	X	STD
CANADA	BASIN	SB263	74	4.66	143	6.46	75	10	20	18	741	X	X	STD
CANADA	BASIN	SB265	74	5.07	143	11.11	75	10	21	18	731	X	X	STD
CANADA	BASIN	SB267	74	3.53	143	10.16	75	10	22	18	727	X	X	STD
CANADA	BASIN	SB269	74	4.46	143	13.88	75	10	23	18	723	X	X	STD
CANADA	BASIN	SB271	74	9.70	143	35.06	75	10	24	18	722	X	X	STD
CANADA	BASIN	SB273	74	10.37	143	25.87	75	10	25	18	723	X	X	STD
CANADA	BASIN	SB275	74	5.19	143	6.44	75	10	26	19	723	X	X	STD
CANADA	BASIN	SB277	74	1.58	142	52.97	75	10	27	18	727	X	X	STD
CANADA	BASIN	SB279	73	54.03	143	1.29	75	10	28	18	723	X	X	STD
CANADA	BASIN	SB281	73	44.62	143	9.31	75	10	29	18	726	X	X	STD
CANADA	BASIN	SB283	73	36.48	143	3.89	75	10	30	18	574	X	X	STD
CANADA	BASIN	SB285	73	32.41	143	3.74	75	10	31	18	724	X	X	STD
CANADA	BASIN	SB287	73	32.02	142	58.44	75	11	1	18	721	X	X	STD
CANADA	BASIN	SB289	73	32.18	142	57.88	75	11	2	18	723	X	X	STD
CANADA	BASIN	SB291	73	32.86	142	59.52	75	11	3	18	742	X	X	STD
CANADA	BASIN	SB293	73	34.36	143	1.72	75	11	4	18	741	X	X	STD
CANADA	BASIN	SB295	73	36.64	143	1.31	75	11	5	18	741	X	X	STD
CANADA	BASIN	SB297	73	38.99	142	49.42	75	11	6	18	739	X	X	STD
CANADA	BASIN	SB299	73	41.41	142	39.34	75	11	7	18	741	X	X	STD
CANADA	BASIN	SB302	73	42.01	142	34.28	75	11	9	18	741	X	X	STD
CANADA	BASIN	SB304	73	43.25	142	32.57	75	11	10	18	741	X	X	STD
CANADA	BASIN	SB306	73	42.98	142	32.00	75	11	11	18	693	X	X	STD
CANADA	BASIN	SB308	73	42.11	142	34.56	75	11	12	18	742	X	X	STD
CANADA	BASIN	SB310	73	39.58	142	50.87	75	11	13	18	741	X	X	STD
CANADA	BASIN	SB312	73	32.49	143	9.48	75	11	14	18	723	X	X	STD
CANADA	BASIN	SB314	73	30.22	143	10.73	75	11	15	18	742	X	X	STD
CANADA	BASIN	SB316	73	29.87	143	8.27	75	11	16	18	739	X	X	STD
CANADA	BASIN	SB318	73	29.92	143	8.72	75	11	17	18	741	X	X	STD
CANADA	BASIN	SB320	73	29.83	143	8.47	75	11	18	18	240	X	X	STD
CANADA	BASIN	SB322	73	29.90	143	8.72	75	11	19	18	667	X	X	STD
CANADA	BASIN	SB324	73	34.18	143	20.47	75	11	20	18	735	X	X	STD
CANADA	BASIN	SB326	73	42.89	143	42.23	75	11	21	18	736	X	X	STD
CANADA	BASIN	SB328	73	50.92	143	53.63	75	11	22	18	741	X	X	STD
CANADA	BASIN	SB330	73	52.22	144	2.70	75	11	23	18	740	X	X	STD
CANADA	BASIN	SB332	73	52.93	144	10.01	75	11	24	18	742	X	X	STD
CANADA	BASIN	SB334	73	53.91	144	26.15	75	11	25	18	740	X	X	STD
CANADA	BASIN	SB336	73	57.90	144	42.44	75	11	26	18	738	X	X	STD
CANADA	BASIN	SB338	74	0.76	144	48.02	75	11	27	19	741	X	X	STD
CANADA	BASIN	SB340	74	1.15	144	53.54	75	11	28	18	741	X	X	STD

CANADA	BASIN	SB342	74	1.19	145	3.35	75	11	29	18	742	X	X	STD
CANADA	BASIN	SB344	73	59.83	145	1.64	75	11	30	18	741	X	X	STD
CANADA	BASIN	SB346	73	54.85	144	55.15	75	12	1	18	740	X	X	STD
CANADA	BASIN	SB348	73	52.30	144	56.84	75	12	2	18	742	X	X	STD
CANADA	BASIN	SB350	73	51.47	144	50.96	75	12	3	18	741	X	X	STD
CANADA	BASIN	SB352	73	51.32	144	50.15	75	12	4	18	742	X	X	STD
CANADA	BASIN	SB354	73	51.18	144	49.82	75	12	5	18	741	X	X	STD
CANADA	BASIN	SB356	73	50.95	144	49.18	75	12	6	18	741	X	X	STD
CANADA	BASIN	SB358	73	52.40	144	39.86	75	12	7	18	740	X	X	STD
CANADA	BASIN	SB362	73	49.96	144	33.30	75	12	11	18	740	X	X	STD
CANADA	BASIN	SB365	73	49.94	144	33.16	75	12	12	19	741	X	X	STD
CANADA	BASIN	SB366	73	50.32	144	36.08	75	12	13	18	740	X	X	STD
CANADA	BASIN	SB367	73	52.58	144	52.91	75	12	14	20	741	X	X	STD
CANADA	BASIN	SB369	73	54.08	144	51.37	75	12	16	20	199	X	X	STD
CANADA	BASIN	SB370	73	54.68	145	12.49	75	12	17	19	742	X	X	STD
CANADA	BASIN	SB372	73	50.52	145	10.50	75	12	18	19	740	X	X	STD
CANADA	BASIN	SB374	73	48.75	145	2.60	75	12	19	18	742	X	X	STD
CANADA	BASIN	SB376	73	48.22	144	57.85	75	12	20	18	741	X	X	STD
CANADA	BASIN	SB378	73	47.98	144	55.37	75	12	21	17	739	X	X	STD
CANADA	BASIN	SB380	73	48.46	144	58.13	75	12	22	18	741	X	X	STD
CANADA	BASIN	SB390	73	50.00	145	18.32	75	12	28	18	752	X	X	STD
CANADA	BASIN	SB392	73	49.39	145	15.62	75	12	29	19	746	X	X	STD
CANADA	BASIN	SB394	73	48.81	145	6.86	75	12	30	18	747	X	X	STD
CANADA	BASIN	SB396	73	50.18	145	10.76	75	12	31	19	745	X	X	STD
CANADA	BASIN	SB398	73	53.14	145	23.94	76	1	1	18	746	X	X	STD
CANADA	BASIN	SB400	73	55.31	145	26.42	76	1	2	18	747	X	X	STD
CANADA	BASIN	SB402	73	59.41	145	34.39	76	1	3	18	746	X	X	STD
CANADA	BASIN	SB404	74	6.79	145	45.31	76	1	4	18	275	X	X	STD
CANADA	BASIN	SB406	74	10.92	145	52.07	76	1	5	18	747	X	X	STD
CANADA	BASIN	SB410	74	12.79	145	46.34	76	1	7	18	747	X	X	STD
CANADA	BASIN	SB412	74	12.37	145	47.96	76	1	8	18	276	X	X	STD
CANADA	BASIN	SB414	74	6.30	145	34.49	76	1	10	18	274	X	X	STD
CANADA	BASIN	SB416	74	1.06	145	16.49	76	1	11	18	746	X	X	STD
CANADA	BASIN	SB418	73	57.62	145	6.16	76	1	12	18	745	X	X	STD
CANADA	BASIN	SB420	73	57.56	145	5.74	76	1	13	18	749	X	X	STD
CANADA	BASIN	SB422	73	58.18	145	6.20	76	1	14	18	745	X	X	STD
CANADA	BASIN	SB424	73	59.76	145	8.26	76	1	15	18	746	X	X	STD
CANADA	BASIN	SB426	73	58.69	145	6.90	76	1	16	5	746	X	X	STD
CANADA	BASIN	SB428	73	57.48	145	2.98	76	1	16	19	746	X	X	STD
CANADA	BASIN	SB429	73	57.68	145	2.78	76	1	17	6	746	X	X	STD
CANADA	BASIN	SB431	73	57.61	145	4.23	76	1	17	19	746	X	X	STD
CANADA	BASIN	SB433	73	57.21	145	4.18	76	1	18	7	750	X	X	STD
CANADA	BASIN	SB435	73	57.02	145	4.03	76	1	18	18	760	X	X	STD
CANADA	BASIN	SB437	73	56.86	145	3.50	76	1	19	5	746	X	X	STD
CANADA	BASIN	SB439	73	56.33	145	0.49	76	1	19	19	746	X	X	STD
CANADA	BASIN	SB441	73	55.95	144	56.41	76	1	20	5	748	X	X	STD
CANADA	BASIN	SB443	73	55.67	144	54.46	76	1	20	18	748	X	X	STD
CANADA	BASIN	SB444	73	55.66	144	54.56	76	1	21	5	743	X	X	STD
CANADA	BASIN	SB446	73	55.51	144	55.91	76	1	21	18	746	X	X	STD
CANADA	BASIN	SB448	73	54.86	145	1.19	76	1	22	5	746	X	X	STD
CANADA	BASIN	SB450	73	54.28	145	3.28	76	1	22	18	745	X	X	STD
CANADA	BASIN	SB452	73	52.81	145	5.14	76	1	23	18	746	X	X	STD
CANADA	BASIN	SB454	73	52.68	145	3.34	76	1	24	5	745	X	X	STD
CANADA	BASIN	SB456	73	52.00	145	0.75	76	1	24	18	749	X	X	STD
CANADA	BASIN	SB458	73	51.67	145	0.47	76	1	25	5	744	X	X	STD
CANADA	BASIN	SB460	73	51.32	145	0.54	76	1	25	19	746	X	X	STD
CANADA	BASIN	SB462	73	51.28	145	0.56	76	1	26	5	745	X	X	STD
CANADA	BASIN	SB464	73	51.28	145	0.61	76	1	26	18	747	X	X	STD
CANADA	BASIN	SB466	73	51.29	145	0.55	76	1	27	5	745	X	X	STD
CANADA	BASIN	SB468	73	51.27	145	0.52	76	1	27	18	747	X	X	STD
CANADA	BASIN	SB470	73	51.26	145	0.70	76	1	28	6	748	X	X	STD
CANADA	BASIN	SB472	73	51.26	145	0.60	76	1	28	18	748	X	X	STD
CANADA	BASIN	SB474	73	51.28	145	0.68	76	1	29	5	749	X	X	STD
CANADA	BASIN	SB476	73	51.46	145	2.83	76	1	29	18	746	X	X	STD
CANADA	BASIN	SB478	73	51.73	145	10.35	76	1	30	5	740	X	X	STD
CANADA	BASIN	SB480	73	53.11	145	45.67	76	1	31	18	741	X	X	STD
CANADA	BASIN	SB482	73	55.34	145	48.91	76	2	1	18	746	X	X	STD
CANADA	BASIN	SB484	73	56.24	145	29.57	76	2	3	18	748	X	X	STD
CANADA	BASIN	SB486	73	55.22	145	28.46	76	2	4	18	748	X	X	STD
CANADA	BASIN	SB488	73	54.15	145	28.28	76	2	5	18	747	X	X	STD
CANADA	BASIN	SB490	73	51.23	145	23.26	76	2	6	18	746	X	X	STD
CANADA	BASIN	SB492	73	48.03	145	6.56	76	2	7	18	747	X	X	STD
CANADA	BASIN	SB494	73	42.98	144	48.04	76	2	9	18	744	X	X	STD
CANADA	BASIN	SB496	73	42.90	144	47.63	76	2	10	18	744	X	X	STD
CANADA	BASIN	SB498	73	42.87	144	47.50	76	2	11	18	745	X	X	STD
CANADA	BASIN	SB500	73	41.72	144	43.78	76	2	12	18	744	X	X	STD
CANADA	BASIN	SB502	73	41.60	144	43.35	76	2	13	19	747	X	X	STD
CANADA	BASIN	SB504	73	41.60	144	43.48	76	2	14	20	745	X	X	STD
CANADA	BASIN	SB506	73	41.59	144	43.51	76	2	15	18	746	X	X	STD
CANADA	BASIN	SB508	73	41.57	144	43.48	76	2	16	18	745	X	X	STD
CANADA	BASIN	SB509	73	41.59	144	43.33	76	2	17	18	745	X	X	STD
CANADA	BASIN	SB510	73	41.59	144	43.44	76	2	18	18	745	X	X	STD
CANADA	BASIN	SB511	73	41.59	144	43.48	76	2	19	18	748	X	X	STD

CANADA BASIN	SB513	73	41.58	144	43.45	76	2	21	18	747	X	X	STD
CANADA BASIN	SB515	73	41.59	144	43.37	76	2	22	18	746	X	X	STD
CANADA BASIN	SB517	73	41.60	144	43.48	76	2	23	18	745	X	X	STD
CANADA BASIN	SB519	73	41.60	144	43.59	76	2	24	18	746	X	X	STD
CANADA BASIN	SB521	73	44.68	144	40.58	76	2	27	18	746	X	X	STD
CANADA BASIN	SB522	73	44.26	144	40.11	76	2	28	18	741	X	X	STD
CANADA BASIN	SB524	73	47.91	144	45.15	76	3	1	18	741	X	X	STD
CANADA BASIN	SB525	73	46.80	144	45.25	76	3	2	18	741	X	X	STD
CANADA BASIN	SB526	73	46.84	144	44.68	76	3	3	18	743	X	X	STD
CANADA BASIN	SB527	73	44.32	145	10.33	76	3	5	3	744	X	X	STD
CANADA BASIN	SB528	73	43.16	145	6.10	76	3	6	6	742	X	X	STD
CANADA BASIN	SB529	73	43.14	145	3.71	76	3	6	18	749	X	X	STD
CANADA BASIN	SB530	73	22.09	145	23.06	76	4	1		787	X	X	STD
CANADA BASIN	SB550	73	22.04	145	34.24	76	4	7	6	758	X	X	STD
CANADA BASIN	SB552	73	22.02	145	33.70	76	4	7	18	757	X	X	STD
CANADA BASIN	SB554	73	21.98	145	33.24	76	4	8	6	760	X	X	STD
CANADA BASIN	SB556	73	22.48	145	34.71	76	4	8	18	757	X	X	STD
CANADA BASIN	SB558	73	24.59	145	38.68	76	4	9	6	756	X	X	STD
CANADA BASIN	SB560	73	24.81	145	39.53	76	4	9	18	757	X	X	STD
CANADA BASIN	SB562	73	23.44	145	42.68	76	4	10	5	757	X	X	STD
CANADA BASIN	SB564	73	22.76	145	48.01	76	4	10	18	757	X	X	STD
CANADA BASIN	SB566	73	22.49	145	55.76	76	4	11	6	756	X	X	STD
CANADA BASIN	SB568	73	22.78	146	5.00	76	4	11	18	757	X	X	STD
CANADA BASIN	SB570	73	23.80	146	12.69	76	4	12	5	758	X	X	STD
CANADA BASIN	SB572	73	24.02	146	13.04	76	4	12	18	762	X	X	STD
CANADA BASIN	SB574	73	23.98	146	12.59	76	4	13	6	757	X	X	STD
CANADA BASIN	SB576	73	23.78	146	10.98	76	4	13	18	756	X	X	STD
CANADA BASIN	SB578	73	23.56	146	9.34	76	4	14	6	756	X	X	STD
CANADA BASIN	SB580	73	23.37	146	5.93	76	4	14	18	756	X	X	STD
CANADA BASIN	SB582	73	23.87	145	57.05	76	4	15	6	756	X	X	STD
CANADA BASIN	SB584	73	24.64	145	51.82	76	4	15	18	762	X	X	STD
CANADA BASIN	SB586	73	25.46	145	44.67	76	4	16	6	756	X	X	STD
CANADA BASIN	SB588	73	25.72	145	43.67	76	4	16	18	756	X	X	STD
CANADA BASIN	SB590	73	25.52	145	43.58	76	4	17	6	756	X	X	STD
CANADA BASIN	SB592	73	25.64	145	43.92	76	4	17	18	756	X	X	STD
CANADA BASIN	SB594	73	25.87	145	44.47	76	4	18	5	756	X	X	STD
CANADA BASIN	SB596	73	25.79	145	45.70	76	4	18	18	756	X	X	STD
CANADA BASIN	SB598	73	25.51	145	50.04	76	4	19	6	756	X	X	STD
CANADA BASIN	SB600	73	24.91	145	53.45	76	4	19	18	756	X	X	STD
CANADA BASIN	SB602	73	23.98	145	58.65	76	4	20	6	755	X	X	STD
CANADA BASIN	SB604	73	23.74	146	0.74	76	4	20	18	756	X	X	STD
CANADA BASIN	BB 4					75	4	4	6	997	X	X	STD
CANADA BASIN	BB 5					75	4	5	6	999	X	X	STD
CANADA BASIN	BB 6					75	4	6	6	727	X	X	STD
CANADA BASIN	BB 7					75	4	6	17	991	X	X	STD
CANADA BASIN	BB 8					75	4	7	5	976	X	X	STD
CANADA BASIN	BB 9		*			75	4	7	17	971	X	X	STD
CANADA BASIN	BB 10					75	4	8	5	730	X	X	STD
CANADA BASIN	BB 13					75	4	9	6	975	X	X	STD
CANADA BASIN	BB 14					75	4	9	18	179	X	X	STD
CANADA BASIN	BB 22					75	4	10	17	731	X	X	STD
CANADA BASIN	BB 24	76	21.11	145	20.99	75	4	11	5	728	X	X	STD
CANADA BASIN	BB 28	76	21.37	145	15.33	75	4	12	5	729	X	X	STD
CANADA BASIN	BB 30	76	21.20	145	15.41	75	4	12	16	728	X	X	STD
CANADA BASIN	BB 32	76	21.28	145	16.15	75	4	13	5	730	X	X	STD
CANADA BASIN	BB 34	76	21.33	145	17.15	75	4	13	17	873	X	X	STD
CANADA BASIN	BB 35	76	21.53	145	17.78	75	4	13	21	731	X	X	STD
CANADA BASIN	BB 37	76	22.36	145	20.45	75	4	14	5	745	X	X	STD
CANADA BASIN	BB 39	76	25.07	145	30.50	75	4	14	17	729	X	X	STD
CANADA BASIN	BB 43	76	29.94	145	34.48	75	4	15	17	739	X	X	STD
CANADA BASIN	BB 45	76	29.27	145	20.95	75	4	16	5	726	X	X	STD
CANADA BASIN	BB 47	76	30.15	145	11.92	75	4	16	17	729	X	X	STD
CANADA BASIN	BB 49	76	30.66	145	0.61	75	4	17	5	724	X	X	STD
CANADA BASIN	BB 51	76	29.99	144	55.60	75	4	17	16	731	X	X	STD
CANADA BASIN	BB 53	76	29.00	144	49.16	75	4	18	4	2927	X	X	STD
CANADA BASIN	BB 55	76	28.75	144	45.32	75	4	18	17	2996	X	X	STD
CANADA BASIN	BB 57	76	28.88	144	38.43	75	4	19	4	727	X	X	STD
CANADA BASIN	BB 59	76	28.85	144	32.96	75	4	19	17	725	X	X	STD
CANADA BASIN	BB 61	76	28.93	144	26.77	75	4	20	4	725	X	X	STD
CANADA BASIN	BB 63	76	28.73	144	25.40	75	4	20	17	742	X	X	STD
CANADA BASIN	BB 65	76	29.31	144	26.40	75	4	21	4	497	X	X	STD
CANADA BASIN	BB 67	76	29.52	144	27.91	75	4	21	17	727	X	X	STD
CANADA BASIN	BB 69	76	29.13	144	31.43	75	4	22	4	727	X	X	STD
CANADA BASIN	BB 71	76	28.36	144	35.62	75	4	22	17	728	X	X	STD
CANADA BASIN	BB 73	76	27.31	144	33.77	75	4	23	4	728	X	X	STD
CANADA BASIN	BB 75	76	26.45	144	31.23	75	4	23	17	745	X	X	STD
CANADA BASIN	BB 77	76	26.23	144	29.65	75	4	24	3	729	X	X	STD
CANADA BASIN	BB 79	76	26.33	144	30.19	75	4	24	17	730	X	X	STD
CANADA BASIN	BB 81	76	25.98	144	28.39	75	4	25	3	712	X	X	STD
CANADA BASIN	BB 83	76	25.79	144	27.82	75	4	25	17	727	X	X	STD
CANADA BASIN	BB 84	76	26.38	144	26.95	75	4	26	4	725	X	X	STD
CANADA BASIN	BB 86	76	26.65	144	26.88	75	4	26	18	727	X	X	STD
CANADA BASIN	BB 89	76	25.83	144	23.40	75	4	27	17	729	X	X	STD

* No locations supplied by Lamont

CANADA	BASIN	BB 91	76	25.23	144	21.17	75	4	28	5	724		X	X	STD
CANADA	BASIN	BB 93	76	25.14	144	20.42	75	4	28	17	726		X	X	STD
CANADA	BASIN	BB 95	76	25.20	144	18.09	75	4	29	5	726		X	X	STD
CANADA	BASIN	BB 97	76	25.33	144	16.49	75	4	29	17	726		X	X	STD
CANADA	BASIN	BB 99	76	26.87	144	7.52	75	4	30	4	724		X	X	STD
CANADA	BASIN	BB103	76	27.84	143	40.01	75	5	1	5	730		X	X	STD
CANADA	BASIN	BB105	76	27.73	143	39.77	75	5	1	17	727		X	X	STD
CANADA	BASIN	BB107	76	27.17	143	40.88	75	5	2	4	725		X	X	STD
CANADA	BASIN	BB111	76	26.70	143	50.70	75	5	3	4	728		X	X	STD
CANADA	BASIN	BB115	76	25.78	144	2.80	75	5	4	4	724		X	X	STD
CANADA	BASIN	BB117	76	25.48	144	8.47	75	5	4	17	727		X	X	STD
CANADA	BASIN	BB119	76	25.54	144	19.00	75	5	5	4	727		X	X	STD
CANADA	BASIN	BB121	76	25.51	144	33.13	75	5	5	17	727		X	X	STD
CANADA	BASIN	BB123	76	26.19	144	44.21	75	5	6	4	725		X	X	STD
CANADA	BASIN	BB125	76	26.72	144	55.79	75	5	6	17	725		X	X	STD
CANADA	BASIN	BB127	76	27.52	145	3.56	75	5	7	4	726		X	X	STD
CANADA	BASIN	BB129	76	27.83	145	7.29	75	5	7	17	726		X	X	STD
CANADA	BASIN	BB131	76	28.03	145	9.42	75	5	8	4	725		X	X	STD
CANADA	BASIN	BB133	76	28.11	145	12.29	75	5	8	17	723		X	X	STD
CANADA	BASIN	BB135	76	28.78	145	14.36	75	5	9	4	727		X	X	STD
CANADA	BASIN	BB137	76	29.66	145	13.97	75	5	9	17	728		X	X	STD
CANADA	BASIN	BB139	76	29.85	145	12.83	75	5	10	4	726		X	X	STD
CANADA	BASIN	BB141	76	29.11	145	10.33	75	5	10	17	727		X	X	STD
CANADA	BASIN	BB143	76	27.49	145	7.75	75	5	11	4	2925		X	X	STD
CANADA	BASIN	BB145	76	26.11	145	5.26	75	5	11	17	727		X	X	STD
CANADA	BASIN	BB147	76	24.68	145	6.58	75	5	12	4	726		X	X	STD
CANADA	BASIN	BB149	76	23.23	145	7.33	75	5	12	17	726		X	X	STD
CANADA	BASIN	BB151	76	21.12	145	10.91	75	5	13	4	726		X	X	STD
CANADA	BASIN	BB153	76	18.88	145	13.87	75	5	13	18	726		X	X	STD
CANADA	BASIN	BB155	76	17.36	145	10.47	75	5	14	4	725		X	X	STD
CANADA	BASIN	BB157	76	15.64	145	4.93	75	5	14	17	726		X	X	STD
CANADA	BASIN	BB159	76	14.09	144	57.24	75	5	15	4	726		X	X	STD
CANADA	BASIN	BB161	76	12.20	144	53.83	75	5	15	17	726		X	X	STD
CANADA	BASIN	BB163	76	10.87	144	55.91	75	5	16	4	726		X	X	STD
CANADA	BASIN	BB165	76	11.47	144	54.08	75	5	16	17	725		X	X	STD
CANADA	BASIN	BB167	76	13.28	144	56.89	75	5	17	4	726		X	X	STD
CANADA	BASIN	BB169	76	15.43	145	7.13	75	5	17	17	2926		X	X	STD
CANADA	BASIN	BB171	76	16.52	145	17.81	75	5	18	4	726		X	X	STD
CANADA	BASIN	BB173	76	16.54	145	28.48	75	5	18	17	726		X	X	STD
CANADA	BASIN	BB175	76	16.03	145	39.16	75	5	19	4	726		X	X	STD
CANADA	BASIN	BB177	76	14.68	145	43.86	75	5	19	17	726		X	X	STD
CANADA	BASIN	BB179	76	13.40	145	46.51	75	5	20	4	725		X	X	STD
CANADA	BASIN	BB181	76	12.55	145	45.82	75	5	20	17	726		X	X	STD
CANADA	BASIN	BB183	76	12.25	145	43.13	75	5	21	3	727		X	X	STD
CANADA	BASIN	BB185	76	12.27	145	39.64	75	5	21	17	728		X	X	STD
CANADA	BASIN	BB187	76	13.40	145	35.15	75	5	22	5	725		X	X	STD
CANADA	BASIN	BB189	76	14.17	145	30.18	75	5	22	17	725		X	X	STD
CANADA	BASIN	BB191	76	14.50	145	24.77	75	5	23	5	726		X	X	STD
CANADA	BASIN	BB193	76	14.56	145	21.79	75	5	23	17	726		X	X	STD
CANADA	BASIN	BB195	76	13.97	145	18.53	75	5	24	5	725		X	X	STD
CANADA	BASIN	BB197	76	13.56	145	16.84	75	5	24	17	2923		X	X	STD
CANADA	BASIN	BB199	76	13.88	145	15.77	75	5	25	5	499		X	X	STD
CANADA	BASIN	BB201	76	14.74	145	16.39	75	5	25	17	727		X	X	STD
CANADA	BASIN	BB203	76	15.44	145	21.95	75	5	26	5	726		X	X	STD
CANADA	BASIN	BB205	76	14.86	145	32.18	75	5	26	17	725		X	X	STD
CANADA	BASIN	BB207	76	14.60	145	43.60	75	5	27	5	726		X	X	STD
CANADA	BASIN	BB209	76	15.00	145	54.04	75	5	27	17	727		X	X	STD
CANADA	BASIN	BB213	76	17.49	146	14.77	75	5	28	17	726		X	X	STD
CANADA	BASIN	BB215	76	19.18	146	24.87	75	5	29	5	726		X	X	STD
CANADA	BASIN	BB217	76	20.88	146	34.42	75	5	29	18	726		X	X	STD
CANADA	BASIN	BB219	76	22.36	146	43.88	75	5	30	5	726		X	X	STD
CANADA	BASIN	BB221	76	23.83	146	50.69	75	5	30	16	724		X	X	STD
CANADA	BASIN	BB223	76	25.62	147	6.13	75	6	1	5	725		X	X	STD
CANADA	BASIN	BB225	76	25.75	147	10.30	75	6	1	17	726		X	X	STD
CANADA	BASIN	BB227	76	25.81	147	17.46	75	6	2	5	723		X	X	STD
CANADA	BASIN	BB229	76	26.12	147	22.23	75	6	2	17	727		X	X	STD
CANADA	BASIN	BB231	76	27.01	147	32.32	75	6	3	17	725		X	X	STD
CANADA	BASIN	BB233	76	27.68	147	40.38	75	6	4	5	728		X	X	STD
CANADA	BASIN	BB235	76	27.92	147	49.72	75	6	4	17	2935		X	X	STD
CANADA	BASIN	BB237	76	27.82	147	59.29	75	6	5	5	727		X	X	STD
CANADA	BASIN	BB239	76	27.58	148	5.26	75	6	5	17	726		X	X	STD
CANADA	BASIN	BB241	76	26.99	148	11.21	75	6	6	5	724		X	X	STD
CANADA	BASIN	BB243	76	26.41	148	15.96	75	6	6	17	726		X	X	STD
CANADA	BASIN	BB245	76	25.69	148	22.21	75	6	7	5	725		X	X	STD
CANADA	BASIN	BB247	76	25.06	148	25.63	75	6	7	17	2922		X	X	STD
CANADA	BASIN	BB249	76	24.46	148	28.40	75	6	8	5	725		X	X	STD
CANADA	BASIN	BB251	76	23.25	148	30.79	75	6	8	17	736		X	X	STD
CANADA	BASIN	BB253	76	21.79	148	29.87	75	6	9	5	726		X	X	STD
CANADA	BASIN	BB255	76	20.92	148	28.01	75	6	9	17	726		X	X	STD
CANADA	BASIN	BB257	76	20.59	148	26.24	75	6	10	5	726		X	X	STD
CANADA	BASIN	BB259	76	20.00	148	22.62	75	6	10	17	729		X	X	STD
CANADA	BASIN	BB261	76	19.02	148	16.31	75	6	11	5	727		X	X	STD
CANADA	BASIN	BB263	76	18.97	148	14.05	75	6	11	17	724		X	X	STD

CANADA BASIN	BB265	76	19.12	148	17.20	75	6	12	5	725	X	X	STD
CANADA BASIN	BB267	76	19.06	148	16.86	75	6	12	17	724	X	X	STD
CANADA BASIN	BB271	76	18.51	148	21.84	75	6	13	17	725	X	X	STD
CANADA BASIN	BB273	76	18.74	148	23.38	75	6	14	5	725	X	X	STD
CANADA BASIN	BB275	76	19.39	148	23.97	75	6	14	17	2926	X	X	STD
CANADA BASIN	BB277	76	20.57	148	24.70	75	6	15	5	726	X	X	STD
CANADA BASIN	BB279	76	20.80	148	29.84	75	6	15	17	724	X	X	STD
CANADA BASIN	BB281	76	20.84	148	35.73	75	6	16	5	725	X	X	STD
CANADA BASIN	BB283	76	20.74	148	36.86	75	6	16	17	724	X	X	STD
CANADA BASIN	BB285	76	22.27	148	42.31	75	6	17	5	723	X	X	STD
CANADA BASIN	BB287	76	24.33	148	51.64	75	6	17	17	726	X	X	STD
CANADA BASIN	BB289	76	24.74	149	1.57	75	6	18	5	725	X	X	STD
CANADA BASIN	BB291	76	22.73	149	10.18	75	6	18	17	724	X	X	STD
CANADA BASIN	BB293	76	20.28	149	13.63	75	6	19	5	498	X	X	STD
CANADA BASIN	BB295	76	19.87	149	16.90	75	6	19	17	725	X	X	STD
CANADA BASIN	BB297	76	20.14	149	21.89	75	6	20	5	725	X	X	STD
CANADA BASIN	BB299	76	20.14	149	24.88	75	6	20	17	725	X	X	STD
CANADA BASIN	BB301	76	20.34	149	26.14	75	6	21	5	725	X	X	STD
CANADA BASIN	BB303	76	21.48	149	27.50	75	6	21	17	2925	X	X	STD
CANADA BASIN	BB305	76	24.22	149	31.36	75	6	22	5	725	X	X	STD
CANADA BASIN	BB307	76	25.33	149	27.73	75	6	22	17	725	X	X	STD
CANADA BASIN	BB309	76	26.08	149	28.09	75	6	23	5	724	X	X	STD
CANADA BASIN	BB311	76	26.95	149	36.97	75	6	23	17	725	X	X	STD
CANADA BASIN	BB331	76	27.06	149	42.10	75	6	24	5	725	X	X	STD
CANADA BASIN	BB333	76	26.66	149	42.88	75	6	24	17	725	X	X	STD
CANADA BASIN	BB335	76	25.57	149	41.53	75	6	25	5	728	X	X	STD
CANADA BASIN	BB337	76	24.77	149	33.76	75	6	25	17	724	X	X	STD
CANADA BASIN	BB339	76	24.39	149	24.38	75	6	26	5	714	X	X	STD
CANADA BASIN	BB341	76	24.98	149	21.69	75	6	26	19	724	X	X	STD
CANADA BASIN	BB342	76	27.73	149	19.02	75	6	28	5	722	X	X	STD
CANADA BASIN	BB344	76	28.18	149	10.16	75	6	28	17	724	X	X	STD
CANADA BASIN	BB347	76	26.30	148	49.48	75	6	29	17	756	X	X	STD
CANADA BASIN	BB349	76	28.44	148	43.50	75	6	30	5	755	X	X	STD
CANADA BASIN	BB351	76	31.79	148	44.96	75	6	30	17	756	X	X	STD
CANADA BASIN	BB353	76	33.42	148	38.64	75	7	1	5	755	X	X	STD
CANADA BASIN	BB355	76	32.71	148	30.39	75	7	1	17	756	X	X	STD
CANADA BASIN	BB357	76	32.36	148	24.65	75	7	2	5	755	X	X	STD
CANADA BASIN	BB359	76	32.25	148	24.59	75	7	2	17	754	X	X	STD
CANADA BASIN	BB361	76	32.24	148	12.41	75	7	3	5	754	X	X	STD
CANADA BASIN	BB362	76	33.83	147	44.08	75	7	4	5	725	X	X	STD
CANADA BASIN	BB364	76	31.47	147	37.07	75	7	4	17	725	X	X	STD
CANADA BASIN	BB365	76	27.14	147	16.13	75	7	5	17	2921	X	X	STD
CANADA BASIN	BB367	76	22.19	146	47.82	75	7	6	17	723	X	X	STD
CANADA BASIN	BB370	76	23.10	145	37.56	75	7	10	5	722	X	X	STD
CANADA BASIN	BB372	76	20.42	145	21.06	75	7	10	17	722	X	X	STD
CANADA BASIN	BB374	76	18.94	145	13.93	75	7	11	5	724	X	X	STD
CANADA BASIN	BB376	76	18.34	145	8.92	75	7	11	17	724	X	X	STD
CANADA BASIN	BB378	76	18.59	145	6.43	75	7	12	5	721	X	X	STD
CANADA BASIN	BB380	76	19.36	145	6.50	75	7	12	17	2924	X	X	STD
CANADA BASIN	BB382	76	20.24	145	9.64	75	7	13	5	722	X	X	STD
CANADA BASIN	BB384	76	20.96	145	11.81	75	7	13	17	726	X	X	STD
CANADA BASIN	BB386	76	21.29	145	11.08	75	7	14	4	722	X	X	STD
CANADA BASIN	BB389	75	59.81	144	59.26	75	7	20	5	746	X	X	STD
CANADA BASIN	BB391	75	57.59	144	55.84	75	7	20	16	745	X	X	STD
CANADA BASIN	BB393	75	53.09	144	54.28	75	7	21	5	745	X	X	STD
CANADA BASIN	BB395	75	49.70	144	58.42	75	7	21	17	745	X	X	STD
CANADA BASIN	BB397	75	46.99	145	0.61	75	7	22	4	442	X	X	STD
CANADA BASIN	BB399	75	43.23	145	5.82	75	7	23	4	745	X	X	STD
CANADA BASIN	BB401	75	42.34	145	8.27	75	7	23	17	761	X	X	STD
CANADA BASIN	BB403	75	41.63	145	9.14	75	7	24	4	746	X	X	STD
CANADA BASIN	BB405	75	41.64	145	10.93	75	7	24	17	745	X	X	STD
CANADA BASIN	BB407	75	41.53	145	16.60	75	7	25	5	745	X	X	STD
CANADA BASIN	BB409	75	41.33	145	24.13	75	7	25	17	462	X	X	STD
CANADA BASIN	BB411	75	39.97	145	28.48	75	7	26	4	616	X	X	STD
CANADA BASIN	BB413	75	37.76	145	28.38	75	7	26	17	695	X	X	STD
CANADA BASIN	BB415	75	35.68	145	24.25	75	7	27	4	747	X	X	STD
CANADA BASIN	BB421	75	22.51	144	41.75	75	7	30	4	743	X	X	STD
CANADA BASIN	BB423	75	18.23	144	30.38	75	7	30	18	746	X	X	STD
CANADA BASIN	BB425	75	15.35	144	21.50	75	7	31	5	709	X	X	STD
CANADA BASIN	BB427	75	10.69	143	59.70	75	8	1	4	742	X	X	STD
CANADA BASIN	BB429	75	8.01	143	49.82	75	8	1	17	744	X	X	STD
CANADA BASIN	BB431	75	5.77	143	44.42	75	8	2	4	591	X	X	STD
CANADA BASIN	BB433	75	4.36	143	39.55	75	8	2	16	590	X	X	STD
CANADA BASIN	BB434	75	2.11	143	28.91	75	8	3	17	589	X	X	STD
CANADA BASIN	BB436	75	1.14	143	21.99	75	8	4	3	592	X	X	STD
CANADA BASIN	BB438	75	1.56	143	14.80	75	8	4	17	590	X	X	STD
CANADA BASIN	BB440	75	3.53	142	58.42	75	8	5	5	610	X	X	STD
CANADA BASIN	BB442	75	4.14	142	47.73	75	8	5	16	593	X	X	STD
CANADA BASIN	BB444	75	1.95	142	44.99	75	8	6	4	590	X	X	STD
CANADA BASIN	BB446	75	0.77	142	42.01	75	8	6	17	591	X	X	STD
CANADA BASIN	BB448	74	59.80	142	38.32	75	8	7	4	590	X	X	STD
CANADA BASIN	BB450	74	59.06	142	36.23	75	8	7	17	591	X	X	STD
CANADA BASIN	BB451	74	58.56	142	33.32	75	8	8	3	591	X	X	STD

CANADA	BASIN	BB453	74	58.82	142	26.07	75	8	8	16	590	X	X	STD
CANADA	BASIN	BB457	74	55.63	141	47.83	75	8	9	17	589	X	X	STD
CANADA	BASIN	BB459	74	52.91	141	36.17	75	8	10	4	586	X	X	STD
CANADA	BASIN	BB461	74	44.00	141	17.35	75	8	11	17	588	X	X	STD
CANADA	BASIN	BB463	74	41.88	141	8.29	75	8	12	4	587	X	X	STD
CANADA	BASIN	BB465	74	40.55	140	57.63	75	8	12	17	590	X	X	STD
CANADA	BASIN	BB467	74	40.65	140	50.53	75	8	13	4	590	X	X	STD
CANADA	BASIN	BB469	74	43.48	140	28.87	75	8	14	4	590	X	X	STD
CANADA	BASIN	BB471	74	41.39	140	16.63	75	8	14	17	589	X	X	STD
CANADA	BASIN	BB473	74	41.34	140	13.14	75	8	15	4	589	X	X	STD
CANADA	BASIN	BB475	74	42.97	140	14.77	75	8	15	17	589	X	X	STD
CANADA	BASIN	BB477	74	44.00	140	13.35	75	8	16	17	590	X	X	STD
CANADA	BASIN	BB479	74	41.68	140	16.60	75	8	17	5	588	X	X	STD
CANADA	BASIN	BB481	74	40.08	140	24.14	75	8	17	17	591	X	X	STD
CANADA	BASIN	BB483	74	39.61	140	29.12	75	8	18	4	588	X	X	STD
CANADA	BASIN	BB485	74	39.16	140	32.39	75	8	18	16	591	X	X	STD
CANADA	BASIN	BB487	74	38.84	140	41.35	75	8	19	5	590	X	X	STD
CANADA	BASIN	BB489	74	38.83	140	47.85	75	8	19	17	590	X	X	STD
CANADA	BASIN	BB491	74	39.88	141	1.11	75	8	20	5	588	X	X	STD
CANADA	BASIN	BB493	74	40.19	141	14.18	75	8	20	17	589	X	X	STD
CANADA	BASIN	BB495	74	40.43	141	22.90	75	8	21	4	588	X	X	STD
CANADA	BASIN	BB497	74	40.36	141	26.39	75	8	21	16	590	X	X	STD
CANADA	BASIN	BB499	74	39.00	141	25.88	75	8	22	4	590	X	X	STD
CANADA	BASIN	BB501	74	37.38	141	22.28	75	8	22	17	592	X	X	STD
CANADA	BASIN	BB503	74	35.29	141	16.99	75	8	23	4	589	X	X	STD
CANADA	BASIN	BB505	74	32.78	141	13.24	75	8	23	17	591	X	X	STD
CANADA	BASIN	BB507	74	31.69	141	11.60	75	8	24	4	594	X	X	STD
CANADA	BASIN	BB509	74	31.34	141	9.22	75	8	24	17	610	X	X	STD
CANADA	BASIN	BB511	74	30.71	140	48.69	75	8	25	17	588	X	X	STD
CANADA	BASIN	BB513	74	31.07	140	43.84	75	8	26	4	590	X	X	STD
CANADA	BASIN	BB515	74	33.40	140	43.34	75	8	26	17	588	X	X	STD
CANADA	BASIN	BB517	74	34.24	140	34.27	75	8	27	4	589	X	X	STD
CANADA	BASIN	BB519	74	29.87	140	19.63	75	8	27	17	588	X	X	STD
CANADA	BASIN	BB521	74	25.43	140	6.00	75	8	28	4	589	X	X	STD
CANADA	BASIN	BB525	74	22.45	139	42.58	75	8	29	4	583	X	X	STD
CANADA	BASIN	BB527	74	19.24	139	32.96	75	8	29	17	589	X	X	STD
CANADA	BASIN	BB529	74	11.81	139	25.90	75	8	31	5	589	X	X	STD
CANADA	BASIN	BB530	74	8.49	139	19.08	75	9	1	3	593	X	X	STD
CANADA	BASIN	BB531	73	52.73	137	27.17	75	9	21	6	492	X	X	STD
CANADA	BASIN	BB535	73	49.43	136	52.15	75	9	22	4	728	X	X	STD
CANADA	BASIN	BB537	73	48.34	136	47.79	75	9	22	18	727	X	X	STD
CANADA	BASIN	BB539	73	47.67	136	52.53	75	9	23	3	721	X	X	STD
CANADA	BASIN	BB541	73	45.97	137	3.79	75	9	23	18	727	X	X	STD
CANADA	BASIN	BB543	73	44.47	137	0.70	75	9	24	3	727	X	X	STD
CANADA	BASIN	BB545	73	41.43	136	47.78	75	9	24	18	729	X	X	STD
CANADA	BASIN	BB547	73	38.69	136	36.35	75	9	25	4	726	X	X	STD
CANADA	BASIN	BB549	73	35.80	136	36.03	75	9	25	17	728	X	X	STD
CANADA	BASIN	BB551	73	30.34	136	29.50	75	9	28	3	726	X	X	STD
CANADA	BASIN	BB553	73	28.82	136	24.05	75	9	28	18	729	X	X	STD
CANADA	BASIN	BB555	73	28.50	136	24.48	75	9	29	3	722	X	X	STD
CANADA	BASIN	BB557	73	28.44	136	24.54	75	9	29	17	2933	X	X	STD
CANADA	BASIN	BB559	73	28.76	136	23.48	75	9	30	2	729	X	X	STD
CANADA	BASIN	BB561	73	30.30	136	33.71	75	9	30	16	724	X	X	STD
CANADA	BASIN	BB562	73	31.10	136	42.88	75	10	1	3	725	X	X	STD

11.5 AIDJEX 1975-1976 PROFILING CURRENT METER DATA

This section lists the profiling current meter stations from AIDJEX 1975-1976. All the stations are presented, even those outside the boundaries of this compilation.

The following headings are used:

AREA	General area of station
STN	Station number CB - Caribou Camp BF - Blue Fox Camp SB - Snowbird Camp BB - Big Bear Camp
LAT, LONG	In degrees and minutes.
YR	Year
MO	Month
DY	Day
HR	Hour (GMT)
PROFILE TO	Maximum data depth (m); * indicates a time series of measurements.
PARAM MEAS	Parameters measured - pressure, current speed and direction. Qualification symbols are X - measurements of this parameter were made CA - possible calibration problems S - suspect readings C - constant readings over parts of record O - zero or obviously bad readings
INSTR	Instrument type: TSK-Tsurumi-Seiki Co.

PROFILING CURRENT METER DATA SET NUMBER: 75-0005
YEAR:1975 VESSEL/AGENCY: AIDJEX

AREA	STN	LAT DEG	LAT MIN	LON DEG	LON MIN	DATE YR	MO	DY	HR	PROFILE TO (M)	PARAM MEAS P	S	D	INSTR
CANADA BASIN	CB 1	74	35.46	144	6.57	75	8	5	7	190	X	X	X	TSK
CANADA BASIN	CB 2	74	30.05	143	44.30	75	8	8	6	200	X	X	X	TSK
CANADA BASIN	CB 3	74	30.34	143	29.45	75	8	8	23	130	X	X	X	TSK
CANADA BASIN	CB 4	74	29.72	143	16.74	75	8	9	3	*	X	X	X	TSK
CANADA BASIN	CB 5	74	24.51	142	52.12	75	8	9	22	194	X	X	X	TSK
CANADA BASIN	CB 6	74	24.16	142	50.44	75	8	10	1	*	X	X	X	TSK
CANADA BASIN	CB 7	74	16.27	142	33.39	75	8	10	23	190	X	X	X	TSK
CANADA BASIN	CB 8	74	16.16	142	32.34	75	8	11	2	*	X	X	X	TSK
CANADA BASIN	CB 9	74	10.79	142	16.91	75	8	11	23	190	X	X	X	TSK
CANADA BASIN	CB 10	74	12.13	141	44.66	75	8	13	23	200	X	X	X	TSK
CANADA BASIN	CB 11	74	10.41	141	33.15	75	8	15	22	200	X	X	X	TSK
CANADA BASIN	CB 12	74	10.13	141	34.47	75	8	16	23	195	X	X	X	TSK
CANADA BASIN	CB 13	74	6.51	141	50.52	75	8	17	22	195	X	X	X	TSK
CANADA BASIN	CB 14	74	6.71	142	21.30	75	8	19	22	200	X	X	X	TSK
CANADA BASIN	CB 15	74	7.60	142	43.25	75	8	20	22	200	X	X	X	TSK
CANADA BASIN	CB 16	74	4.59	142	44.53	75	8	22	22	200	X	X	X	TSK
CANADA BASIN	CB 17	74	1.29	142	39.85	75	8	23	22	200	X	X	X	TSK
CANADA BASIN	CB 18	74	0.86	142	34.25	75	8	24	22	200	X	X	X	TSK
CANADA BASIN	CB 19	74	0.95	142	20.96	75	8	25	23	195	X	X	X	TSK
CANADA BASIN	CB 20	74	5.03	142	15.74	75	8	26	22	200	X	X	X	TSK
CANADA BASIN	CB 21	73	57.69	141	45.93	75	8	27	22	171	X	X	X	TSK
CANADA BASIN	CB 22	73	52.29	141	20.58	75	8	28	22	195	X	X	X	TSK
CANADA BASIN	CB 23	73	45.63	141	3.49	75	8	29	23	200	X	X	X	TSK
CANADA BASIN	CB 24	73	43.76	141	5.41	75	8	30	22	200	X	X	X	TSK
CANADA BASIN	CB 25	73	34.40	140	47.34	75	9	1	22	200	X	X	X	TSK
CANADA BASIN	CB 26	73	30.13	140	42.27	75	9	2	23	200	X	X	X	TSK
CANADA BASIN	CB 27	73	30.95	140	39.05	75	9	3	22	200	X	X	X	TSK
CANADA BASIN	CB 28	73	26.02	140	24.62	75	9	5	22	200	X	X	X	TSK
CANADA BASIN	CB 29	73	25.13	140	37.30	75	9	6	22	200	X	X	X	TSK
CANADA BASIN	CB 30	73	23.68	140	32.57	75	9	8	22	200	X	X	X	TSK
CANADA BASIN	CB 31	73	23.51	140	9.85	75	9	9	22	200	X	X	X	TSK
CANADA BASIN	CB 32	73	22.13	139	53.85	75	9	10	22	200	X	X	X	TSK
CANADA BASIN	CB 33	73	22.79	139	36.46	75	9	11	23	200	X	X	X	TSK
CANADA BASIN	CB 34	73	23.83	139	16.01	75	9	12	23	200	X	X	X	TSK
CANADA BASIN	CB 35	73	22.25	139	1.82	75	9	13	22	200	X	X	X	TSK
CANADA BASIN	CB 36	73	20.81	138	47.64	75	9	14	23	200	X	X	X	TSK
CANADA BASIN	CB 37	73	22.58	139	2.62	75	9	15	22	200	X	X	X	TSK
CANADA BASIN	CB 38	73	29.12	139	13.93	75	9	17	23	200	X	X	X	TSK
CANADA BASIN	CB 39	73	27.75	139	14.06	75	9	18	23	200	X	X	X	TSK
CANADA BASIN	CB 40	73	25.48	139	32.24	75	9	19	22	200	X	X	X	TSK
CANADA BASIN	CB 41	73	22.81	139	28.04	75	9	20	22	200	X	X	X	TSK
CANADA BASIN	CB 42	73	22.48	138	51.67	75	9	21	22	200	X	X	X	TSK
CANADA BASIN	CB 43	73	20.88	138	32.49	75	9	22	22	200	X	X	X	TSK
CANADA BASIN	CB 44	73	13.27	138	29.40	75	9	24	23	200	X	X	X	TSK
CANADA BASIN	CB 45	73	6.28	138	17.55	75	9	27	23	200	X	X	X	TSK
CANADA BASIN	CB 46	73	6.37	138	19.12	75	9	28	23	200	X	X	X	TSK
CANADA BASIN	CB 47	73	26.27	140	1.47	75	10	4	23	200	X	X	X	TSK
CANADA BASIN	CB 48	73	27.03	140	11.50	75	10	5	23	200	X	X	X	TSK
CANADA BASIN	CB 49	73	17.51	140	10.44	75	10	11	22	200	X	X	X	TSK
CANADA BASIN	CB 50	73	18.40	139	58.43	75	10	12	23	200	X	X	X	TSK
CANADA BASIN	CB 51	73	16.27	140	7.53	75	10	13	22	200	X	X	X	TSK
CANADA BASIN	CB 52	73	17.75	141	35.58	75	10	23	20	200	X	X	X	TSK
CANADA BASIN	CB 53	73	23.34	141	45.28	75	10	25	6	200	X	X	X	TSK
CANADA BASIN	CB 54	73	13.95	141	9.01	75	10	27	20	199	X	X	X	TSK
CANADA BASIN	CB 55	73	2.97	141	16.79	75	10	29	8	197	X	X	X	TSK
CANADA BASIN	CB 56	72	49.32	141	11.92	75	10	31	1	200	X	X	X	TSK
CANADA BASIN	CB 57	72	47.41	141	9.34	75	11	1	3	190	X	X	X	TSK
CANADA BASIN	CB 58	72	47.18	141	6.31	75	11	2	6	200	X	X	X	TSK
CANADA BASIN	CB 59	72	47.31	141	6.47	75	11	3	1	200	X	X	X	TSK
CANADA BASIN	CB 60	72	48.10	141	9.44	75	11	4	2	200	X	X	X	TSK
CANADA BASIN	CB 61	72	50.84	141	8.40	75	11	6	9	198	X	X	X	TSK
CANADA BASIN	CB 62	72	51.74	141	0.48	75	11	6	22	198	X	X	X	TSK
CANADA BASIN	CB 63	72	52.72	140	55.40	75	11	7	21	198	X	X	X	TSK
CANADA BASIN	CB 64	72	52.52	140	48.45	75	11	11	9	200	X	X	X	TSK
CANADA BASIN	CB 65	72	52.51	140	48.30	75	11	11	19	200	X	X	X	TSK
CANADA BASIN	CB 66	72	52.42	140	48.31	75	11	12	5	200	X	X	X	TSK
CANADA BASIN	CB 67	72	51.78	140	51.99	75	11	12	18	200	X	X	X	TSK
CANADA BASIN	CB 68	72	51.10	140	58.51	75	11	13	5	200	X	X	X	TSK
CANADA BASIN	CB 69	72	50.69	141	0.93	75	11	13	8	*	X	X	X	TSK
CANADA BASIN	CB 70	72	47.81	141	14.37	75	11	14	2	*	X	X	X	TSK
CANADA BASIN	CB 71	72	47.06	141	17.17	75	11	14	5	198	X	X	X	TSK

CANADA	BASIN	CB 72	72	44.25	141	23.05	75	11	14	18	197	X	X	X	TSK
CANADA	BASIN	CB 73	72	43.70	141	22.41	75	11	15	6	200	X	X	X	TSK
CANADA	BASIN	CB 74	72	43.10	141	21.73	75	11	16	6	196	X	X	X	TSK
CANADA	BASIN	CB 75	72	43.09	141	21.75	75	11	16	19	196	X	X	X	TSK
CANADA	BASIN	CB 76	72	43.12	141	21.63	75	11	17	6	200	X	X	X	TSK
CANADA	BASIN	CB 77	72	43.11	141	21.73	75	11	17	21	200	X	X	X	TSK
CANADA	BASIN	CB 78	72	43.10	141	21.73	75	11	18	7	200	X	X	X	TSK
CANADA	BASIN	CB 79	72	43.10	141	21.73	75	11	18	21	200	X	X	X	TSK
CANADA	BASIN	CB 80	72	43.12	141	21.64	75	11	19	7	200	X	X	X	TSK
CANADA	BASIN	CB 81	72	43.12	141	21.93	75	11	19	19	200	X	X	X	TSK
CANADA	BASIN	CB 82	72	43.38	141	23.82	75	11	20		*	X	X	X	TSK
CANADA	BASIN	CB 83	72	44.44	141	27.47	75	11	20	6	196	X	X	X	TSK
CANADA	BASIN	CB 84	72	48.35	141	39.30	75	11	20	21	200	X	X	X	TSK
CANADA	BASIN	CB 85	72	56.83	142	2.11	75	11	21	19	194	X	X	X	TSK
CANADA	BASIN	CB 86	72	57.07	142	2.56	75	11	21	20	192	X	X	X	TSK
CANADA	BASIN	CB 87	73	1.46	142	9.91	75	11	22	5	190	X	X	X	TSK
CANADA	BASIN	CB 88	73	5.58	142	13.17	75	11	22	21	197	X	X	X	TSK
CANADA	BASIN	CB 89	73	6.16	142	15.04	75	11	23	6	198	X	X	X	TSK
CANADA	BASIN	CB 90	73	6.77	142	21.87	75	11	23	19	196	X	X	X	TSK
CANADA	BASIN	CB 91	73	7.28	142	23.52	75	11	24	6	195	X	X	X	TSK
CANADA	BASIN	CB 92	73	7.38	142	23.51	75	11	24	19	200	X	X	X	TSK
CANADA	BASIN	CB 93	73	7.59	142	27.40	75	11	25	6	194	X	X	X	TSK
CANADA	BASIN	CB 94	73	7.64	142	29.71	75	11	25	10	192	X	X	X	TSK
CANADA	BASIN	CB 95	73	8.32	142	39.24	75	11	26		183	X	X	X	TSK
CANADA	BASIN	CB 96	73	9.18	142	43.51	75	11	26	6	178	X	X	X	TSK
CANADA	BASIN	CB 97	73	11.96	142	51.34	75	11	26	20	200	X	X	X	TSK
CANADA	BASIN	CB 98	73	13.00	142	53.64	75	11	27	6	170	X	X	X	TSK
CANADA	BASIN	CB 99	73	13.32	142	54.05	75	11	27	20	200	X	X	X	TSK
CANADA	BASIN	CB100	73	13.49	142	55.29	75	11	28	7	200	X	X	X	TSK
CANADA	BASIN	CB101	73	13.96	143	0.87	75	11	28	20	200	X	X	X	TSK
CANADA	BASIN	CB102	73	14.35	143	6.16	75	11	29	6	196	X	X	X	TSK
CANADA	BASIN	CB103	73	14.01	143	9.77	75	11	29	20	200	X	X	X	TSK
CANADA	BASIN	CB104	73	9.20	143	0.27	75	12	1	13	185	X	X	X	TSK
CANADA	BASIN	CB105	73	7.45	142	59.51	75	12	1	19	195	X	X	X	TSK
CANADA	BASIN	CB106	73	5.84	143	1.74	75	12	2	6	190	X	X	X	TSK
CANADA	BASIN	CB107	73	4.05	143	0.77	75	12	2	20	198	X	X	X	TSK
CANADA	BASIN	CB108	73	3.50	142	56.95	75	12	3	19	200	X	X	X	TSK
CANADA	BASIN	CB109	73	3.50	142	56.73	75	12	3	20	200	X	X	X	TSK
CANADA	BASIN	CB110	73	3.41	142	56.69	75	12	4	6	200	X	X	X	TSK
CANADA	BASIN	CB111	73	3.38	142	56.57	75	12	4	21	200	X	X	X	TSK
CANADA	BASIN	CB112	73	3.35	142	55.92	75	12	5	6	200	X	X	X	TSK
CANADA	BASIN	CB113	73	3.30	142	55.94	75	12	5	19	200	X	X	X	TSK
CANADA	BASIN	CB114	73	3.24	142	55.67	75	12	6	6	200	X	X	X	TSK
CANADA	BASIN	CB115	73	3.18	142	55.30	75	12	6	23	200	X	X	X	TSK
CANADA	BASIN	CB116	73	3.10	142	54.62	75	12	7	5	200	X	X	X	TSK
CANADA	BASIN	CB117	73	4.63	142	48.01	75	12	7	21	195	X	X	X	TSK
CANADA	BASIN	CB118	73	7.10	142	45.96	75	12	8	7	200	X	X	X	TSK
CANADA	BASIN	CB119	73	8.26	142	47.82	75	12	8	11	198	X	X	X	TSK
CANADA	BASIN	CB120	73	9.44	142	53.92	75	12	8	21	197	X	X	X	TSK
CANADA	BASIN	CB121	73	9.03	142	57.57	75	12	9	7	200	X	X	X	TSK
CANADA	BASIN	CB122	73	8.98	142	57.68	75	12	9	8	190	X	X	X	TSK
CANADA	BASIN	CB123	73	8.82	142	57.83	75	12	9	9	150	X	X	X	TSK
CANADA	BASIN	CB124	73	7.62	142	57.11	75	12	9	22	200	X	X	X	TSK
CANADA	BASIN	CB125	73	5.58	142	47.94	75	12	10	19	196	X	X	X	TSK
CANADA	BASIN	CB126	73	4.12	142	44.85	75	12	11	7	200	X	X	X	TSK
CANADA	BASIN	CB127	73	3.51	142	43.70	75	12	11	20	200	X	X	X	TSK
CANADA	BASIN	CB128	73	7.20	143	2.41	75	12	15	7	199	X	X	X	TSK
CANADA	BASIN	CB129	73	7.50	142	57.41	75	12	16	7	200	X	X	X	TSK
CANADA	BASIN	CB130	73	8.14	143	5.75	75	12	16	22	200	X	X	X	TSK
CANADA	BASIN	CB131	73	9.06	143	13.10	75	12	17	7	200	X	X	X	TSK
CANADA	BASIN	CB132	73	8.47	143	23.25	75	12	17	22	198	X	X	X	TSK
CANADA	BASIN	CB133	73	6.57	143	22.80	75	12	18	7	184	X	X	X	TSK
CANADA	BASIN	CB134	73	4.02	143	18.80	75	12	18	20	200	X	X	X	TSK
CANADA	BASIN	CB135	73	2.18	143	12.02	75	12	19	20	200	X	X	X	TSK
CANADA	BASIN	CB136	73	1.68	143	9.16	75	12	20	21	200	X	X	X	TSK
CANADA	BASIN	CB137	73	1.62	143	7.37	75	12	21	19	199	X	X	X	TSK
CANADA	BASIN	CB138	73	1.66	143	7.33	75	12	22	6	200	X	X	X	TSK
CANADA	BASIN	CB139	73	2.13	143	11.11	75	12	22	20	200	X	X	X	TSK
CANADA	BASIN	CB140	73	2.40	143	13.53	75	12	23	6	200	X	X	X	TSK
CANADA	BASIN	CB141	73	2.45	143	14.90	75	12	23	20	200	X	X	X	TSK
CANADA	BASIN	CB142	73	2.21	143	14.00	75	12	24	6	198	X	X	X	TSK
CANADA	BASIN	CB143	73	1.74	143	12.86	75	12	24	19	200	X	X	X	TSK
CANADA	BASIN	CB144	73	1.52	143	12.66	75	12	27	7	200	X	X	X	TSK
CANADA	BASIN	CB145	73	1.96	143	18.38	75	12	27	20	200	X	X	X	TSK
CANADA	BASIN	CB146	73	2.79	143	25.56	75	12	28	7	200	X	X	X	TSK
CANADA	BASIN	CB147	73	3.76	143	32.40	75	12	29	5	200	X	X	X	TSK
CANADA	BASIN	CB148	73	2.93	143	27.33	75	12	29	20	196	X	X	X	TSK
CANADA	BASIN	CB149	73	2.56	143	23.76	75	12	30	6	195	X	X	X	TSK
CANADA	BASIN	CB150	73	2.20	143	19.45	75	12	30	19	200	X	X	X	TSK
CANADA	BASIN	CB151	73	2.22	143	18.92	75	12	31	6	200	X	X	X	TSK
CANADA	BASIN	CB152	73	4.01	143	28.04	75	12	31	23	193	X	X	X	TSK
CANADA	BASIN	CB153	73	5.17	143	33.06	76	1	1	6	196	X	X	X	TSK
CANADA	BASIN	CB154	73	6.42	143	35.01	76	1	2	7	200	X	X	X	TSK

CANADA BASIN	CB155	73	7.70	143	38.82	76	1	2	20	196	X	X	X	TSK
CANADA BASIN	CB156	73	8.86	143	43.30	76	1	3	6	195	X	X	X	TSK
CANADA BASIN	CB157	73	11.99	143	50.06	76	1	3	21	193	X	X	X	TSK
CANADA BASIN	CB158	73	14.76	143	54.58	76	1	4	6	196	X	X	X	TSK
CANADA BASIN	CB159	73	16.60	143	58.18	76	1	4	12	*	X	X	X	TSK
CANADA BASIN	CB160	73	19.50	144	4.04	76	1	4	20	193	X	X	X	TSK
CANADA BASIN	CB161	73	21.83	144	9.75	76	1	5	8	198	X	X	X	TSK
CANADA BASIN	CB162	73	22.54	144	11.09	76	1	5	19	200	X	X	X	TSK
CANADA BASIN	CB163	73	22.64	144	10.78	76	1	6	7	200	X	X	X	TSK
CANADA BASIN	CB164	73	22.89	144	8.48	76	1	6	20	200	X	X	X	TSK
CANADA BASIN	CB165	73	23.94	144	8.85	76	1	7	20	200	X	X	X	TSK
CANADA BASIN	CB166	73	22.84	144	11.16	76	1	9	1	195	X	X	X	TSK
CANADA BASIN	CB167	73	21.95	144	12.05	76	1	9	6	192	X	X	X	TSK
CANADA BASIN	CB168	73	18.81	144	7.15	76	1	10	2	197	X	X	X	TSK
CANADA BASIN	CB169	73	17.38	143	52.60	76	1	10	22	177	X	X	X	TSK
CANADA BASIN	CB170	73	16.66	143	43.08	76	1	11	7	192	X	X	X	TSK
CANADA BASIN	CB171	73	10.83	143	33.06	76	1	12		192	X	X	X	TSK
CANADA BASIN	CB172	73	8.56	143	26.43	76	1	13	8	200	X	X	X	TSK
CANADA BASIN	CB173	73	8.58	143	26.41	76	1	13	19	200	X	X	X	TSK
CANADA BASIN	CB174	73	8.59	143	26.49	76	1	14	6	200	X	X	X	TSK
CANADA BASIN	CB175	73	9.22	143	27.23	76	1	14	19	200	X	X	X	TSK
CANADA BASIN	CB176	73	10.44	143	28.65	76	1	15	7	200	X	X	X	TSK
CANADA BASIN	CB177	73	10.50	143	28.77	76	1	15	9	200	X	X	X	TSK
CANADA BASIN	CB178	73	10.50	143	29.06	76	1	15	20	196	X	X	X	TSK
CANADA BASIN	CB179	73	2.87	143	24.63	76	1	26	2	200	X	X	X	TSK
CANADA BASIN	CB180	73	2.85	143	24.24	76	1	26	22	200	X	X	X	TSK
CANADA BASIN	CB181	73	2.84	143	24.70	76	1	28	8	200	X	X	X	TSK
CANADA BASIN	CB182	73	2.85	143	24.66	76	1	28	20	200	X	X	X	TSK
CANADA BASIN	CB183	73	2.86	143	24.67	76	1	29	8	200	X	X	X	TSK
CANADA BASIN	CB184	73	3.19	143	32.79	76	1	30	3	187	X	X	X	TSK
CANADA BASIN	CB185	73	3.61	144	1.71	76	1	31	5	191	X	X	X	TSK
CANADA BASIN	CB186	73	4.62	144	11.74	76	1	31	20	*	X	X	X	TSK
CANADA BASIN	CB187	73	6.00	144	13.73	76	2	1	10	190	X	X	X	TSK
CANADA BASIN	CB188	73	6.75	144	13.60	76	2	1	23	187	X	X	X	TSK
CANADA BASIN	CB189	73	6.82	144	12.29	76	2	2	4	192	X	X	X	TSK
CANADA BASIN	CB190	73	6.84	144	9.79	76	2	2	11	190	X	X	X	TSK
CANADA BASIN	CB191	73	6.82	144	7.37	76	2	2	17	191	X	X	X	TSK
CANADA BASIN	CB192	73	6.85	144	5.06	76	2	2	22	192	X	X	X	TSK
CANADA BASIN	CB193	73	6.82	144	1.89	76	2	3	5	190	X	X	X	TSK
CANADA BASIN	CB194	73	6.79	144	0.06	76	2	3	10	190	X	X	X	TSK
CANADA BASIN	CB195	73	6.76	143	59.48	76	2	3	16	200	X	X	X	TSK
CANADA BASIN	CB196	73	6.70	144	0.33	76	2	3	23	191	X	X	X	TSK
CANADA BASIN	CB197	73	6.40	144	1.85	76	2	4	4	200	X	X	X	TSK
CANADA BASIN	CB198	73	5.95	144	1.67	76	2	4	10	200	X	X	X	TSK
CANADA BASIN	CB199	73	5.84	144	1.26	76	2	4	16	200	X	X	X	TSK
CANADA BASIN	CB200	73	5.71	144	1.28	76	2	4	22	200	X	X	X	TSK
CANADA BASIN	CB201	73	5.56	144	2.49	76	2	5	4	200	X	X	X	TSK
CANADA BASIN	CB202	73	5.41	144	2.71	76	2	5	10	200	X	X	X	TSK
CANADA BASIN	CB203	73	5.20	144	2.90	76	2	5	16	200	X	X	X	TSK
CANADA BASIN	CB204	73	4.73	144	3.36	76	2	5	23	192	X	X	X	TSK
CANADA BASIN	CB205	73	4.11	144	3.71	76	2	6	4	192	X	X	X	TSK
CANADA BASIN	CB206	73	3.28	144	2.05	76	2	6	10	191	X	X	X	TSK
CANADA BASIN	CB207	73	2.66	143	59.19	76	2	6	16	191	X	X	X	TSK
CANADA BASIN	CB208	73	2.36	143	55.15	76	2	6	22	190	X	X	X	TSK
CANADA BASIN	CB209	73	1.86	143	51.14	76	2	7	4	191	X	X	X	TSK
CANADA BASIN	CB210	73	1.17	143	46.12	76	2	7	10	188	X	X	X	TSK
CANADA BASIN	CB211	73	0.30	143	40.40	76	2	7	17	189	X	X	X	TSK
CANADA BASIN	CB212	72	59.53	143	37.06	76	2	7	22	190	X	X	X	TSK
CANADA BASIN	CB213	72	58.77	143	34.33	76	2	8	6	194	X	X	X	TSK
CANADA BASIN	CB214	72	58.25	143	32.45	76	2	8	10	190	X	X	X	TSK
CANADA BASIN	CB215	72	57.58	143	29.89	76	2	8	16	192	X	X	X	TSK
CANADA BASIN	CB216	72	56.99	143	27.27	76	2	8	22	192	X	X	X	TSK
CANADA BASIN	CB217	72	56.38	143	24.05	76	2	9	4	190	X	X	X	TSK
CANADA BASIN	CB218	72	55.99	143	21.65	76	2	9	10	190	X	X	X	TSK
CANADA BASIN	CB219	72	55.71	143	19.28	76	2	9	23	200	X	X	X	TSK
CANADA BASIN	CB220	72	55.68	143	19.18	76	2	10	4	200	X	X	X	TSK
CANADA BASIN	CB221	72	55.71	143	19.21	76	2	10	10	200	X	X	X	TSK
CANADA BASIN	CB222	72	55.68	143	19.31	76	2	10	19	200	X	X	X	TSK
CANADA BASIN	CB223	72	55.69	143	19.30	76	2	10	22	200	X	X	X	TSK
CANADA BASIN	CB224	72	55.69	143	19.42	76	2	11	4	200	X	X	X	TSK
CANADA BASIN	CB225	72	55.68	143	19.31	76	2	11	10	200	X	X	X	TSK
CANADA BASIN	CB226	72	55.67	143	19.32	76	2	11	16	200	X	X	X	TSK
CANADA BASIN	CB227	72	55.64	143	19.04	76	2	11	22	190	X	X	X	TSK
CANADA BASIN	CB228	72	55.55	143	18.39	76	2	12	5	192	X	X	X	TSK
CANADA BASIN	CB229	72	55.21	143	17.16	76	2	12	11	190	X	X	X	TSK
CANADA BASIN	CB230	72	55.10	143	16.83	76	2	12	16	192	X	X	X	TSK
CANADA BASIN	CB231	72	54.91	143	16.12	76	2	12	23	200	X	X	X	TSK
CANADA BASIN	CB232	72	54.92	143	16.14	76	2	13	5	200	X	X	X	TSK
CANADA BASIN	CB233	72	54.92	143	16.18	76	2	13	11	200	X	X	X	TSK
CANADA BASIN	CB234	72	54.91	143	16.05	76	2	13	16	200	X	X	X	TSK
CANADA BASIN	CB235	72	54.90	143	16.13	76	2	13	23	200	X	X	X	TSK
CANADA BASIN	CB236	72	54.89	143	16.26	76	2	14	5	200	X	X	X	TSK
CANADA BASIN	CB237	72	54.90	143	16.06	76	2	14	10	200	X	X	X	TSK

CANADA	BASIN	CB238	72	54.89	143	16.14	76	2	14	16	200	X	X	X	TSK
CANADA	BASIN	CB239	72	54.90	143	16.14	76	2	14	22	200	X	X	X	TSK
CANADA	BASIN	CB240	72	54.93	143	16.02	76	2	16	4	200	X	X	X	TSK
CANADA	BASIN	CB241	72	54.87	143	16.26	76	2	16	11	200	X	X	X	TSK
CANADA	BASIN	CB242	72	54.91	143	16.23	76	2	16	16	200	X	X	X	TSK
CANADA	BASIN	CB243	72	54.91	143	16.16	76	2	16	22	200	X	X	X	TSK
CANADA	BASIN	CB244	72	54.89	143	16.02	76	2	17	5	200	X	X	X	TSK
CANADA	BASIN	CB245	72	54.90	143	16.18	76	2	17	10	200	X	X	X	TSK
CANADA	BASIN	CB246	72	54.90	143	16.16	76	2	17	16	200	X	X	X	TSK
CANADA	BASIN	CB247	72	54.89	143	16.23	76	2	18	5	200	X	X	X	TSK
CANADA	BASIN	CB248	72	54.89	143	16.13	76	2	18	10	200	X	X	X	TSK
CANADA	BASIN	CB249	72	54.89	143	16.21	76	2	18	16	200	X	X	X	TSK
CANADA	BASIN	CB250	72	54.89	143	16.16	76	2	18	22	200	X	X	X	TSK
CANADA	BASIN	CB251	72	54.89	143	16.08	76	2	19	5	200	X	X	X	TSK
CANADA	BASIN	CB252	72	54.90	143	16.24	76	2	19	10	200	X	X	X	TSK
CANADA	BASIN	CB253	72	54.89	143	16.27	76	2	19	16	200	X	X	X	TSK
CANADA	BASIN	CB254	72	54.90	143	16.06	76	2	19	23	200	X	X	X	TSK
CANADA	BASIN	CB255	72	54.89	143	16.44	76	2	20	4	200	X	X	X	TSK
CANADA	BASIN	CB256	72	54.88	143	16.13	76	2	20	10	200	X	X	X	TSK
CANADA	BASIN	CB257	72	54.90	143	16.01	76	2	20	16	200	X	X	X	TSK
CANADA	BASIN	CB258	72	54.90	143	16.15	76	2	20	22	200	X	X	X	TSK
CANADA	BASIN	CB259	72	54.89	143	16.13	76	2	21	5	200	X	X	X	TSK
CANADA	BASIN	CB260	72	54.91	143	16.18	76	2	21	10	200	X	X	X	TSK
CANADA	BASIN	CB261	72	54.90	143	16.31	76	2	21	16	200	X	X	X	TSK
CANADA	BASIN	CB262	72	54.89	143	16.15	76	2	21	23	200	X	X	X	TSK
CANADA	BASIN	CB263	72	54.89	143	15.96	76	2	22	5	200	X	X	X	TSK
CANADA	BASIN	CB264	72	54.90	143	16.20	76	2	22	12	200	X	X	X	TSK
CANADA	BASIN	CB265	72	54.89	143	16.14	76	2	22	16	200	X	X	X	TSK
CANADA	BASIN	CB266	72	54.89	143	16.09	76	2	22	22	200	X	X	X	TSK
CANADA	BASIN	CB267	72	54.89	143	16.23	76	2	23	5	200	X	X	X	TSK
CANADA	BASIN	CB268	72	54.88	143	16.21	76	2	23	10	200	X	X	X	TSK
CANADA	BASIN	CB269	72	54.88	143	16.18	76	2	23	16	200	X	X	X	TSK
CANADA	BASIN	CB270	72	54.90	143	16.24	76	2	23	22	200	X	X	X	TSK
CANADA	BASIN	CB271	72	54.89	143	16.19	76	2	24	5	200	X	X	X	TSK
CANADA	BASIN	CB272	72	54.88	143	16.23	76	2	24	10	200	X	X	X	TSK
CANADA	BASIN	CB273	72	54.90	143	16.24	76	2	24	16	200	X	X	X	TSK
CANADA	BASIN	CB274	72	54.89	143	16.28	76	2	24	22	200	X	X	X	TSK
CANADA	BASIN	CB275	72	54.89	143	16.29	76	2	25	4	200	X	X	X	TSK
CANADA	BASIN	CB276	72	54.87	143	16.38	76	2	25	10	200	X	X	X	TSK
CANADA	BASIN	CB277	72	54.91	143	16.35	76	2	25	19	200	X	X	X	TSK
CANADA	BASIN	CB278	72	54.88	143	16.23	76	2	26	8	200	X	X	X	TSK
CANADA	BASIN	CB279	72	54.91	143	16.13	76	2	26	19	200	X	X	X	TSK
CANADA	BASIN	CB280	72	56.49	143	16.38	76	2	27	7	200	X	X	X	TSK
CANADA	BASIN	CB281	72	56.75	143	14.11	76	2	27	20	200	X	X	X	TSK
CANADA	BASIN	CB282	72	56.39	143	13.41	76	2	28	8	200	X	X	X	TSK
CANADA	BASIN	CB283	72	56.41	143	13.72	76	2	28	19	200	X	X	X	TSK
CANADA	BASIN	CB284	72	56.99	143	14.85	76	2	29	8	200	X	X	X	TSK
CANADA	BASIN	CB285	72	59.36	143	20.14	76	3	1	7	200	X	X	X	TSK
CANADA	BASIN	CB286	72	59.35	143	21.00	76	3	1	16	200	X	X	X	TSK
CANADA	BASIN	CB287	72	59.07	143	21.06	76	3	2	7	200	X	X	X	TSK
CANADA	BASIN	CB288	72	58.19	143	19.41	76	3	2	20	200	X	X	X	TSK
CANADA	BASIN	CB289	72	57.69	143	19.24	76	3	3	7	200	X	X	X	TSK
CANADA	BASIN	CB290	72	58.03	143	21.92	76	3	3	21	200	X	X	X	TSK
CANADA	BASIN	CB291	72	58.57	143	28.28	76	3	4	4	189	X	X	X	TSK
CANADA	BASIN	CB292	72	58.44	143	32.85	76	3	4	10	190	X	X	X	TSK
CANADA	BASIN	CB293	72	57.78	143	41.12	76	3	4	21	189	X	X	X	TSK
CANADA	BASIN	CB294	72	56.79	143	42.84	76	3	5	7	200	X	X	X	TSK
CANADA	BASIN	CB295	72	56.37	143	41.05	76	3	5	20	200	X	X	X	TSK
CANADA	BASIN	CB296	72	56.14	143	39.68	76	3	6	7	200	X	X	X	TSK
CANADA	BASIN	CB297	72	56.14	143	38.88	76	3	6	20	200	X	X	X	TSK
CANADA	BASIN	CB298	72	56.60	143	42.66	76	3	7	7	190	X	X	X	TSK
CANADA	BASIN	CB299	72	57.87	143	51.57	76	3	7	19	188	X	X	X	TSK
CANADA	BASIN	CB300	72	58.30	144	1.72	76	3	8	7	200	X	X	X	TSK
CANADA	BASIN	CB301	72	58.49	144	10.96	76	3	8	20	190	X	X	X	TSK
CANADA	BASIN	CB302	72	58.81	144	18.21	76	3	9	7	191	X	X	X	TSK
CANADA	BASIN	CB303	72	58.88	144	20.90	76	3	9	16	173	X	X	X	TSK
CANADA	BASIN	CB304	72	58.85	144	22.22	76	3	9	23	180	X	X	X	TSK
CANADA	BASIN	CB305	72	58.78	144	24.06	76	3	10	4	191	X	X	X	TSK
CANADA	BASIN	CB306	72	58.71	144	25.87	76	3	10	10	190	X	X	X	TSK
CANADA	BASIN	CB307	72	58.57	144	27.84	76	3	10	19	190	X	X	X	TSK
CANADA	BASIN	CB308	72	58.31	144	28.96	76	3	11	8	190	X	X	X	TSK
CANADA	BASIN	CB309	72	58.30	144	28.62	76	3	11	20	190	X	X	X	TSK
CANADA	BASIN	CB310	72	58.09	144	29.34	76	3	12	8	191	X	X	X	TSK
CANADA	BASIN	CB311	72	58.07	144	29.25	76	3	12	20	190	X	X	X	TSK
CANADA	BASIN	CB312	72	58.07	144	29.32	76	3	13	8	190	X	X	X	TSK
CANADA	BASIN	CB313	72	57.72	144	29.17	76	3	13	19	190	X	X	X	TSK
CANADA	BASIN	CB314	72	57.01	144	27.52	76	3	14	4	190	X	X	X	TSK
CANADA	BASIN	CB315	72	56.19	144	25.88	76	3	14	10	189	X	X	X	TSK
CANADA	BASIN	CB316	72	55.26	144	24.36	76	3	14	16	190	X	X	X	TSK
CANADA	BASIN	CB317	72	53.98	144	22.61	76	3	14	23	190	X	X	X	TSK
CANADA	BASIN	CB318	72	52.68	144	21.27	76	3	15	5	190	X	X	X	TSK
CANADA	BASIN	CB319	72	51.54	144	19.05	76	3	15	10	189	X	X	X	TSK
CANADA	BASIN	CB320	72	50.03	144	17.07	76	3	15	16	188	X	X	X	TSK

CANADA BASIN	CB321	72	48.74	144	15.19	76	3	15	23	190	X	X	X	TSK
CANADA BASIN	CB322	72	48.27	144	14.62	76	3	16	5	200	X	X	X	TSK
CANADA BASIN	CB323	72	48.20	144	14.78	76	3	16	10	191	X	X	X	TSK
CANADA BASIN	CB324	72	47.80	144	15.11	76	3	16	16	190	X	X	X	TSK
CANADA BASIN	CB325	72	46.78	144	14.60	76	3	16	23	190	X	X	X	TSK
CANADA BASIN	CB326	72	45.12	144	14.15	76	3	17	5	190	X	X	X	TSK
CANADA BASIN	CB327	72	44.01	144	12.41	76	3	17	10	190	X	X	X	TSK
CANADA BASIN	CB328	72	43.47	144	10.67	76	3	17	16	190	X	X	X	TSK
CANADA BASIN	CB329	72	43.35	144	9.92	76	3	17	23	200	X	X	X	TSK
CANADA BASIN	CB330	72	43.34	144	9.88	76	3	18	4	200	X	X	X	TSK
CANADA BASIN	CB331	72	43.35	144	9.86	76	3	18	19	200	X	X	X	TSK
CANADA BASIN	CB332	72	43.28	144	9.84	76	3	19	8	200	X	X	X	TSK
CANADA BASIN	CB333	72	43.34	144	9.92	76	3	19	19	200	X	X	X	TSK
CANADA BASIN	CB334	72	43.36	144	9.94	76	3	20	8	200	X	X	X	TSK
CANADA BASIN	CB335	72	43.34	144	9.90	76	3	20	20	200	X	X	X	TSK
CANADA BASIN	CB336	72	43.28	144	10.18	76	3	21	8	200	X	X	X	TSK
CANADA BASIN	CB337	72	43.34	144	9.97	76	3	21	20	200	X	X	X	TSK
CANADA BASIN	CB338	72	43.34	144	9.91	76	3	22	7	200	X	X	X	TSK
CANADA BASIN	CB339	72	43.34	144	9.92	76	3	22	20	200	X	X	X	TSK
CANADA BASIN	CB340	72	43.31	144	9.97	76	3	23	7	200	X	X	X	TSK
CANADA BASIN	CB341	72	43.33	144	9.98	76	3	23	20	200	X	X	X	TSK
CANADA BASIN	CB342	72	43.30	144	9.82	76	3	24	7	200	X	X	X	TSK
CANADA BASIN	CB343	72	43.33	144	9.82	76	3	24	20	200	X	X	X	TSK
CANADA BASIN	CB344	72	43.37	144	9.45	76	3	25	7	200	X	X	X	TSK
CANADA BASIN	CB345	72	43.37	144	9.42	76	3	25	19	200	X	X	X	TSK
CANADA BASIN	CB346	72	43.40	144	9.37	76	3	26	8	200	X	X	X	TSK
CANADA BASIN	CB347	72	43.36	144	9.47	76	3	26	20	200	X	X	X	TSK
CANADA BASIN	CB348	72	43.38	144	9.50	76	3	27	7	200	X	X	X	TSK
CANADA BASIN	CB349	72	43.34	144	9.63	76	3	27	19	200	X	X	X	TSK
CANADA BASIN	CB350	72	43.38	144	9.53	76	3	28	8	200	X	X	X	TSK
CANADA BASIN	CB351	72	43.36	144	9.55	76	3	28	19	200	X	X	X	TSK
CANADA BASIN	CB352	72	43.37	144	9.51	76	3	29	7	200	X	X	X	TSK
CANADA BASIN	CB353	72	43.37	144	9.53	76	3	29	19	200	X	X	X	TSK
CANADA BASIN	CB354	72	43.37	144	9.58	76	3	30	8	200	X	X	X	TSK
CANADA BASIN	CB355	72	43.36	144	9.61	76	3	30	19	200	X	X	X	TSK
CANADA BASIN	CB356	72	43.36	144	9.49	76	3	31	7	200	X	X	X	TSK
CANADA BASIN	CB357	72	43.37	144	9.40	76	3	31	19	200	X	X	X	TSK
CANADA BASIN	CB358	72	43.35	144	9.63	76	4	1	8	200	X	X	X	TSK
CANADA BASIN	CB359	72	43.37	144	9.53	76	4	1	19	200	X	X	X	TSK
CANADA BASIN	CB360	72	43.37	144	9.56	76	4	2	7	200	X	X	X	TSK
CANADA BASIN	CB361	72	43.36	144	9.55	76	4	3	8	200	X	X	X	TSK
CANADA BASIN	CB362	72	43.36	144	9.50	76	4	3	19	200	X	X	X	TSK
CANADA BASIN	CB363	72	43.26	144	9.53	76	4	4	8	200	X	X	X	TSK
CANADA BASIN	CB364	72	43.37	144	9.48	76	4	4	19	200	X	X	X	TSK
CANADA BASIN	CB365	72	42.93	144	14.67	76	4	5	9	200	X	X	X	TSK
CANADA BASIN	CB366	72	42.85	144	15.44	76	4	5	19	200	X	X	X	TSK
CANADA BASIN	CB367	72	42.81	144	17.48	76	4	6	9	200	X	X	X	TSK
CANADA BASIN	CB368	72	42.90	144	17.80	76	4	6	19	200	X	X	X	TSK
CANADA BASIN	CB369	72	42.85	144	17.54	76	4	7	7	200	X	X	X	TSK
CANADA BASIN	CB370	72	42.85	144	17.68	76	4	7	19	200	X	X	X	TSK
CANADA BASIN	CB371	72	42.82	144	17.86	76	4	8	7	200	X	X	X	TSK
CANADA BASIN	CB372	72	43.91	144	20.58	76	4	8	21	190	X	X	X	TSK
CANADA BASIN	CB373	72	45.50	144	23.36	76	4	9	7	190	X	X	X	TSK
CANADA BASIN	CB374	72	45.82	144	23.24	76	4	9	13	200	X	X	X	TSK
CANADA BASIN	CB375	72	44.14	144	26.80	76	4	10	7	200	X	X	X	TSK
CANADA BASIN	CB376	72	43.52	144	28.99	76	4	10	16	200	X	X	X	TSK
CANADA BASIN	CB377	72	43.11	144	34.92	76	4	11	8	190	X	X	X	TSK
CANADA BASIN	CB378	72	43.10	144	36.08	76	4	11	9	*	X	X	X	TSK
CANADA BASIN	CB379	72	43.43	144	42.71	76	4	11	17	191	X	X	X	TSK
CANADA BASIN	CB380	72	43.77	144	48.56	76	4	11	23	200	X	X	X	TSK
CANADA BASIN	CB381	72	44.46	144	54.00	76	4	12	7	200	X	X	X	TSK
CANADA BASIN	CB382	72	44.58	144	55.50	76	4	12	16	200	X	X	X	TSK
CANADA BASIN	CB383	72	44.34	144	54.01	76	4	13	7	200	X	X	X	TSK
CANADA BASIN	CB384	72	44.19	144	52.59	76	4	13	16	200	X	X	X	TSK
CANADA BASIN	CB385	72	43.98	144	50.15	76	4	14	7	200	X	X	X	TSK
CANADA BASIN	CB386	72	43.85	144	47.58	76	4	14	16	190	X	X	X	TSK
CANADA BASIN	CB387	72	43.96	144	40.35	76	4	15	1	190	X	X	X	TSK
CANADA BASIN	CB388	72	44.37	144	37.48	76	4	15	8	186	X	X	X	TSK
CANADA BASIN	CB389	72	44.92	144	33.92	76	4	15	16	190	X	X	X	TSK
CANADA BASIN	CB390	72	45.63	144	27.47	76	4	16	3	190	X	X	X	TSK
CANADA BASIN	CB391	72	45.78	144	26.64	76	4	16	8	200	X	X	X	TSK
CANADA BASIN	CB392	72	45.92	144	26.34	76	4	16	17	200	X	X	X	TSK
CANADA BASIN	CB393	72	45.52	144	26.33	76	4	17	7	200	X	X	X	TSK
CANADA BASIN	CB394	72	45.52	144	26.34	76	4	17	16	200	X	X	X	TSK
CANADA BASIN	CB395	72	45.53	144	27.73	76	4	18	8	200	X	X	X	TSK
CANADA BASIN	CB396	72	45.41	144	28.36	76	4	18	16	190	X	X	X	TSK
CANADA BASIN	CB397	72	45.09	144	35.31	76	4	19	8	200	X	X	X	TSK
CANADA BASIN	CB398	72	44.83	144	37.35	76	4	19	16	190	X	X	X	TSK
CANADA BASIN	CB399	72	44.03	144	43.00	76	4	20	7	200	X	X	X	TSK
CANADA BASIN	CB400	72	43.97	144	42.98	76	4	20	16	200	X	X	X	TSK
CANADA BASIN	CB401	72	43.57	144	48.59	76	4	21	8	200	X	X	X	TSK
CANADA BASIN	CB402	72	43.59	144	49.14	76	4	21	16	200	X	X	X	TSK
CANADA BASIN	CB403	72	43.51	144	53.19	76	4	22	7	200	X	X	X	TSK

CANADA BASIN	CB404	72	43.50	144	53.02	76	4	22	16	200	X	X	X	TSK
CANADA BASIN	BF 1	77	16.04	143	30.12	75	5	8	6	200	X	X	X	TSK
CANADA BASIN	BF 2	77	16.37	143	34.58	75	5	8	19	200	X	X	X	TSK
CANADA BASIN	BF 3	77	17.20	143	37.25	75	5	9	7	190	X	X	X	TSK
CANADA BASIN	BF 4	77	18.27	143	36.21	75	5	9	19	190	X	X	X	TSK
CANADA BASIN	BF 5	77	18.10	143	33.12	75	5	10	8	200	X	X	X	TSK
CANADA BASIN	BF 6	77	16.10	143	29.59	75	5	11		191	X	X	X	TSK
CANADA BASIN	BF 7	77	15.14	143	26.70	75	5	11	7	192	X	X	X	TSK
CANADA BASIN	BF 8	77	13.51	143	23.52	75	5	11	19	190	X	X	X	TSK
CANADA BASIN	BF 9	77	11.77	143	23.36	75	5	12	7	200	X	X	X	TSK
CANADA BASIN	BF 10	77	9.79	143	22.52	75	5	12	19	184	X	X	X	TSK
CANADA BASIN	BF 11	77	7.16	143	25.77	75	5	13	7	200	X	X	X	TSK
CANADA BASIN	BF 12	77	5.05	143	25.72	75	5	13	19	190	X	X	X	TSK
CANADA BASIN	BF 13	77	3.08	143	20.15	75	5	14	8	190	X	X	X	TSK
CANADA BASIN	BF 14	77	1.16	143	13.35	75	5	14	20	190	X	X	X	TSK
CANADA BASIN	BF 15	76	59.67	143	6.12	75	5	15	5	190	X	X	X	TSK
CANADA BASIN	BF 16	76	56.38	143	4.61	75	5	15	21	190	X	X	X	TSK
CANADA BASIN	BF 17	76	55.49	143	4.34	75	5	16	5	190	X	X	X	TSK
CANADA BASIN	BF 18	76	56.44	143	4.14	75	5	16	21	190	X	X	X	TSK
CANADA BASIN	BF 19	76	57.81	143	6.45	75	5	17	5	189	X	X	X	TSK
CANADA BASIN	BF 20	76	59.33	143	17.11	75	5	17	21	190	X	X	X	TSK
CANADA BASIN	BF 21	76	59.62	143	23.53	75	5	18	5	190	X	X	X	TSK
CANADA BASIN	BF 22	76	59.32	143	36.80	75	5	18	21	190	X	X	X	TSK
CANADA BASIN	BF 23	76	58.41	143	42.34	75	5	19	5	200	X	X	X	TSK
CANADA BASIN	BF 24	76	56.66	143	47.33	75	5	19	21	190	X	X	X	TSK
CANADA BASIN	BF 25	76	55.81	143	50.05	75	5	20	5	200	X	X	X	TSK
CANADA BASIN	BF 26	76	54.98	143	48.10	75	5	20	21	200	X	X	X	TSK
CANADA BASIN	BF 27	76	54.79	143	44.67	75	5	21	6	200	X	X	X	TSK
CANADA BASIN	BF 28	76	55.32	143	39.64	75	5	21	21	190	X	X	X	TSK
CANADA BASIN	BF 29	76	56.21	143	35.45	75	5	22	5	190	X	X	X	TSK
CANADA BASIN	BF 30	76	57.31	143	27.94	75	5	22	21	190	X	X	X	TSK
CANADA BASIN	BF 31	76	57.50	143	23.01	75	5	23	5	200	X	X	X	TSK
CANADA BASIN	BF 32	76	57.26	143	17.78	75	5	23	20	200	X	X	X	TSK
CANADA BASIN	BF 33	76	56.82	143	16.39	75	5	24	5	190	X	X	X	TSK
CANADA BASIN	BF 34	76	56.28	143	13.35	75	5	24	21	200	X	X	X	TSK
CANADA BASIN	BF 35	76	56.47	143	11.97	75	5	25	5	200	X	X	X	TSK
CANADA BASIN	BF 36	76	57.83	143	13.38	75	5	26		190	X	X	X	TSK
CANADA BASIN	BF 37	76	58.13	143	16.16	75	5	26	6	200	X	X	X	TSK
CANADA BASIN	BF 38	76	57.90	143	30.65	75	5	26	23	191	X	X	X	TSK
CANADA BASIN	BF 39	76	57.90	143	36.02	75	5	27	5	190	X	X	X	TSK
CANADA BASIN	BF 40	76	58.35	143	48.21	75	5	27	21	190	X	X	X	TSK
CANADA BASIN	BF 41	76	58.97	143	56.53	75	5	28	5	190	X	X	X	TSK
CANADA BASIN	BF 42	77	0.60	144	11.46	75	5	28	21	186	X	X	X	TSK
CANADA BASIN	BF 43	77	1.81	144	19.77	75	5	29	5	180	X	X	X	TSK
CANADA BASIN	BF 44	77	3.56	144	30.62	75	5	29	21	180	X	X	X	TSK
CANADA BASIN	BF 45	77	4.58	144	37.18	75	5	30	5	192	X	X	X	TSK
CANADA BASIN	BF 46	77	5.81	144	44.40	75	5	30	21	190	X	X	X	TSK
CANADA BASIN	BF 47	77	6.09	144	47.32	75	5	31	5	190	X	X	X	TSK
CANADA BASIN	BF 48	77	6.37	144	55.01	75	5	31	21	190	X	X	X	TSK
CANADA BASIN	BF 49	77	6.43	144	59.70	75	6	1	5	190	X	X	X	TSK
CANADA BASIN	BF 50	77	6.23	145	7.69	75	6	1	21	190	X	X	X	TSK
CANADA BASIN	BF 51	77	6.24	145	12.40	75	6	2	5	191	X	X	X	TSK
CANADA BASIN	BF 52	77	6.20	145	17.78	75	6	2	21	190	X	X	X	TSK
CANADA BASIN	BF 53	77	6.32	145	21.01	75	6	3	5	190	X	X	X	TSK
CANADA BASIN	BF 54	77	7.08	145	28.58	75	6	3	21	190	X	X	X	TSK
CANADA BASIN	BF 55	77	7.44	145	33.84	75	6	4	5	200	X	X	X	TSK
CANADA BASIN	BF 56	77	7.27	145	44.72	75	6	4	20	190	X	X	X	TSK
CANADA BASIN	BF 57	77	6.98	145	50.60	75	6	5	5	190	X	X	X	TSK
CANADA BASIN	BF 58	77	5.87	145	59.38	75	6	5	21	190	X	X	X	TSK
CANADA BASIN	BF 59	77	5.15	146	3.85	75	6	6	5	190	X	X	X	TSK
CANADA BASIN	BF 60	77	3.67	146	11.66	75	6	6	21	200	X	X	X	TSK
CANADA BASIN	BF 61	77	2.79	146	15.17	75	6	7	5	193	X	X	X	TSK
CANADA BASIN	BF 62	77	1.40	146	19.86	75	6	7	20.	190	X	X	X	TSK
CANADA BASIN	BF 63	76	59.84	146	22.77	75	6	8	5	200	X	X	X	TSK
CANADA BASIN	BF 64	76	55.83	146	22.10	75	6	9	5	200	X	X	X	TSK
CANADA BASIN	BF 65	76	53.91	146	21.22	75	6	9	21	200	X	X	X	TSK
CANADA BASIN	BF 66	76	53.27	146	19.07	75	6	10	5	200	X	X	X	TSK
CANADA BASIN	BF 67	76	52.31	146	13.95	75	6	10	21	200	X	X	X	TSK
CANADA BASIN	BF 68	76	51.84	146	11.26	75	6	11	5	200	X	X	X	TSK
CANADA BASIN	BF 69	76	51.66	146	10.30	75	6	11	21	200	X	X	X	TSK
CANADA BASIN	BF 70	76	50.97	146	10.53	75	6	12	5	190	X	X	X	TSK
CANADA BASIN	BF 71	76	49.26	146	8.94	75	6	12	21	192	X	X	X	TSK
CANADA BASIN	BF 72	76	48.39	146	10.88	75	6	13	5	190	X	X	X	TSK
CANADA BASIN	BF 73	76	47.94	146	14.65	75	6	13	21	200	X	X	X	TSK
CANADA BASIN	BF 74	76	47.78	146	15.37	75	6	14	5	200	X	X	X	TSK
CANADA BASIN	BF 75	76	48.04	146	15.92	75	6	14	21	190	X	X	X	TSK
CANADA BASIN	BF 76	76	48.30	146	14.89	75	6	15	5	200	X	X	X	TSK
CANADA BASIN	BF 77	76	48.78	146	21.05	75	6	15	21	200	X	X	X	TSK
CANADA BASIN	BF 78	76	48.71	146	23.98	75	6	16	5	200	X	X	X	TSK
CANADA BASIN	BF 79	76	48.52	146	25.55	75	6	16	20	190	X	X	X	TSK
CANADA BASIN	BF 80	76	49.44	146	29.09	75	6	17	5	190	X	X	X	TSK
CANADA BASIN	BF 81	76	51.93	146	42.10	75	6	17	21	191	X	X	X	TSK
CANADA BASIN	BF 82	76	51.99	146	50.74	75	6	18	5	190	X	X	X	TSK

CANADA BASIN	BF 83	76	48.57	147	1.31	75	6	18	21	190	X	X	X	TSK
CANADA BASIN	BF 84	76	46.69	147	4.13	75	6	19	5	160	X	X	X	TSK
CANADA BASIN	BF 85	76	46.24	147	8.41	75	6	19	21	188	X	X	X	TSK
CANADA BASIN	BF 86	76	45.65	147	10.99	75	6	20	5	180	X	X	X	TSK
CANADA BASIN	BF 87	76	44.70	147	13.15	75	6	20	21	180	X	X	X	TSK
CANADA BASIN	BF 88	76	44.46	147	12.98	75	6	21	5	190	X	X	X	TSK
CANADA BASIN	BF 89	76	45.01	147	13.88	75	6	21	21	190	X	X	X	TSK
CANADA BASIN	BF 90	76	46.82	147	16.40	75	6	22	5	180	X	X	X	TSK
CANADA BASIN	BF 91	76	48.52	147	13.23	75	6	22	21	200	X	X	X	TSK
CANADA BASIN	BF 92	76	49.07	147	14.45	75	6	23	5	200	X	X	X	TSK
CANADA BASIN	BF 93	76	49.94	147	25.80	75	6	23	20	190	X	X	X	TSK
CANADA BASIN	BF 94	76	50.19	147	27.84	75	6	24	5	200	X	X	X	TSK
CANADA BASIN	BF 95	76	50.15	147	29.87	75	6	24	21	200	X	X	X	TSK
CANADA BASIN	BF 96	76	50.08	147	29.31	75	6	25	5	190	X	X	X	TSK
CANADA BASIN	BF 97	76	48.69	147	17.77	75	6	25	21	190	X	X	X	TSK
CANADA BASIN	BF 98	76	48.19	147	10.87	75	6	26	7	190	X	X	X	TSK
CANADA BASIN	BF 99	76	48.63	147	9.97	75	6	26	21	190	X	X	X	TSK
CANADA BASIN	BF100	76	49.30	147	14.31	75	6	27	5	190	X	X	X	TSK
CANADA BASIN	BF101	76	49.69	147	10.36	75	6	27	21	190	X	X	X	TSK
CANADA BASIN	BF102	76	50.14	147	6.13	75	6	28	6	190	X	X	X	TSK
CANADA BASIN	BF103	76	50.28	146	53.60	75	6	28	21	190	X	X	X	TSK
CANADA BASIN	BF104	76	48.75	146	44.83	75	6	29	5	190	X	X	X	TSK
CANADA BASIN	BF105	76	48.56	146	32.82	75	6	29	21	190	X	X	X	TSK
CANADA BASIN	BF106	76	49.94	146	28.36	75	6	30	5	190	X	X	X	TSK
CANADA BASIN	BF107	76	54.24	146	27.94	75	6	30	21	190	X	X	X	TSK
CANADA BASIN	BF108	76	55.45	146	22.48	75	7	1	5	200	X	X	X	TSK
CANADA BASIN	BF109	76	54.35	146	9.39	75	7	1	21	190	X	X	X	TSK
CANADA BASIN	BF110	76	53.85	146	5.35	75	7	2	5	190	X	X	X	TSK
CANADA BASIN	BF111	76	53.22	146	5.05	75	7	2	21	190	X	X	X	TSK
CANADA BASIN	BF112	76	53.36	145	55.37	75	7	3	5	190	X	X	X	TSK
CANADA BASIN	BF113	76	54.47	145	35.45	75	7	3	21	190	X	X	X	TSK
CANADA BASIN	BF114	76	54.84	145	27.03	75	7	4	5	190	X	X	X	TSK
CANADA BASIN	BF115	76	52.11	145	15.05	75	7	4	21	190	X	X	X	TSK
CANADA BASIN	BF116	76	49.98	145	4.70	75	7	5	5	190	X	X	X	TSK
CANADA BASIN	BF117	76	46.41	144	50.59	75	7	5	21	200	X	X	X	TSK
CANADA BASIN	BF118	76	44.62	144	42.53	75	7	6	5	200	X	X	X	TSK
CANADA BASIN	BF119	76	42.09	144	30.95	75	7	6	21	200	X	X	X	TSK
CANADA BASIN	BF120	76	44.16	144	26.45	75	7	7	5	200	X	X	X	TSK
CANADA BASIN	BF121	76	42.58	144	3.50	75	7	7	21	200	X	X	X	TSK
CANADA BASIN	BF122	76	40.85	143	57.03	75	7	8	5	190	X	X	X	TSK
CANADA BASIN	BF123	76	39.92	143	53.94	75	7	8	21	200	X	X	X	TSK
CANADA BASIN	BF124	76	39.88	143	50.19	75	7	9	5	190	X	X	X	TSK
CANADA BASIN	BF125	76	42.81	143	38.39	75	7	9	21	190	X	X	X	TSK
CANADA BASIN	BF126	76	42.09	143	20.93	75	7	10	5	200	X	X	X	TSK
CANADA BASIN	BF127	76	38.34	142	59.90	75	7	10	21	190	X	X	X	TSK
CANADA BASIN	BF128	76	37.09	142	54.67	75	7	11	5	190	X	X	X	TSK
CANADA BASIN	BF129	76	35.87	142	49.59	75	7	11	21	200	X	X	X	TSK
CANADA BASIN	BF130	76	35.94	142	47.22	75	7	12	5	190	X	X	X	TSK
CANADA BASIN	BF131	76	36.33	142	47.24	75	7	12	21	200	X	X	X	TSK
CANADA BASIN	BF132	76	36.91	142	49.05	75	7	13	6	200	X	X	X	TSK
CANADA BASIN	BF133	76	37.62	142	50.62	75	7	13	21	200	X	X	X	TSK
CANADA BASIN	BF134	76	37.84	142	49.92	75	7	14	5	190	X	X	X	TSK
CANADA BASIN	BF135	76	37.29	142	48.15	75	7	14	21	190	X	X	X	TSK
CANADA BASIN	BF136	76	36.56	142	49.49	75	7	15	5	190	X	X	X	TSK
CANADA BASIN	BF137	76	34.38	142	52.15	75	7	15	22	190	X	X	X	TSK
CANADA BASIN	BF138	76	32.65	142	51.06	75	7	16	5	190	X	X	X	TSK
CANADA BASIN	BF139	76	27.20	142	44.93	75	7	16	23	190	X	X	X	TSK
CANADA BASIN	BF140	76	26.10	142	44.11	75	7	17	5	200	X	X	X	TSK
CANADA BASIN	BF141	76	24.19	142	39.47	75	7	17	21	200	X	X	X	TSK
CANADA BASIN	BF142	76	23.14	142	37.36	75	7	18	5	200	X	X	X	TSK
CANADA BASIN	BF143	76	19.07	142	35.28	75	7	18	21	190	X	X	X	TSK
CANADA BASIN	BF144	76	16.61	142	36.09	75	7	19	5	190	X	X	X	TSK
CANADA BASIN	BF145	76	13.01	142	38.18	75	7	19	21	190	X	X	X	TSK
CANADA BASIN	BF146	76	11.29	142	36.63	75	7	20	5	190	X	X	X	TSK
CANADA BASIN	BF147	76	6.11	142	30.77	75	7	20	21	190	X	X	X	TSK
CANADA BASIN	BF148	76	3.23	142	31.84	75	7	21	5	190	X	X	X	TSK
CANADA BASIN	BF149	75	58.72	142	35.27	75	7	21	21	190	X	X	X	TSK
CANADA BASIN	BF150	75	56.27	142	35.62	75	7	22	5	190	X	X	X	TSK
CANADA BASIN	BF151	75	52.32	142	37.55	75	7	22	21	190	X	X	X	TSK
CANADA BASIN	BF152	75	50.50	142	39.16	75	7	23	5	200	X	X	X	TSK
CANADA BASIN	BF153	75	47.52	142	43.03	75	7	23	22	200	X	X	X	TSK
CANADA BASIN	BF154	75	46.50	142	44.78	75	7	24	5	200	X	X	X	TSK
CANADA BASIN	BF155	75	44.45	142	48.95	75	7	24	21	200	X	X	X	TSK
CANADA BASIN	BF156	75	43.58	142	50.93	75	7	25	5	200	X	X	X	TSK
CANADA BASIN	BF157	75	42.15	142	54.20	75	7	25	21	190	X	X	X	TSK
CANADA BASIN	BF158	75	41.45	142	55.58	75	7	26	5	190	X	X	X	TSK
CANADA BASIN	BF159	75	40.24	142	57.02	75	7	26	21	190	X	X	X	TSK
CANADA BASIN	BF160	75	39.59	142	57.05	75	7	27	5	190	X	X	X	TSK
CANADA BASIN	BF161	75	38.33	142	55.41	75	7	27	21	190	X	X	X	TSK
CANADA BASIN	BF162	75	37.57	142	53.43	75	7	28	5	190	X	X	X	TSK
CANADA BASIN	BF163	75	36.15	142	48.90	75	7	28	21	190	X	X	X	TSK
CANADA BASIN	BF164	75	36.09	142	35.40	75	7	29	5	190	X	X	X	TSK
CANADA BASIN	BF165	75	32.27	142	19.61	75	7	29	21	190	X	X	X	TSK

CANADA	BASIN	BF166	75	29.59	142	14.54	75	7	30	5	190	X	X	X	TSK
CANADA	BASIN	BF167	75	24.89	141	59.91	75	7	30	21	190	X	X	X	TSK
CANADA	BASIN	BF168	75	22.57	141	52.95	75	7	31	5	190	X	X	X	TSK
CANADA	BASIN	BF169	75	19.42	141	37.85	75	7	31	21	190	X	X	X	TSK
CANADA	BASIN	BF170	75	17.57	141	29.77	75	8	1	5	190	X	X	X	TSK
CANADA	BASIN	BF171	75	13.78	141	17.50	75	8	1	21	190	X	X	X	TSK
CANADA	BASIN	BF172	75	12.14	141	15.15	75	8	2	5	190	X	X	X	TSK
CANADA	BASIN	BF173	75	9.74	141	8.72	75	8	2	21	170	X	X	X	TSK
CANADA	BASIN	BF174	75	8.55	141	5.42	75	8	3	5	190	X	X	X	TSK
CANADA	BASIN	BF175	75	7.01	140	56.96	75	8	3	21	160	X	X	X	TSK
CANADA	BASIN	BF176	75	5.71	140	50.20	75	8	4	5	190	X	X	X	TSK
CANADA	BASIN	BF177	75	5.99	140	39.26	75	8	4	20	190	X	X	X	TSK
CANADA	BASIN	BF178	75	7.44	140	25.61	75	8	5	5	190	X	X	X	TSK
CANADA	BASIN	BF179	75	6.47	140	9.77	75	8	6	6	190	X	X	X	TSK
CANADA	BASIN	BF180	75	5.12	140	5.48	75	8	6	21	190	X	X	X	TSK
CANADA	BASIN	BF181	75	5.02	140	2.52	75	8	7	5	190	X	X	X	TSK
CANADA	BASIN	BF182	75	4.35	139	57.25	75	8	7	22	190	X	X	X	TSK
CANADA	BASIN	BF183	75	4.22	139	54.59	75	8	8	5	190	X	X	X	TSK
CANADA	BASIN	BF184	75	4.69	139	43.90	75	8	8	21	190	X	X	X	TSK
CANADA	BASIN	BF185	75	4.87	139	26.11	75	8	9	5	150	X	X	X	TSK
CANADA	BASIN	BF186	75	1.97	139	23.94	75	8	9	11	100	X	X	X	TSK
CANADA	BASIN	BF187	75	1.56	139	5.62	75	8	9	21	190	X	X	X	TSK
CANADA	BASIN	BF188	75	1.11	138	58.31	75	8	10	5	180	X	X	X	TSK
CANADA	BASIN	BF189	74	58.05	138	53.78	75	8	10	11	120	X	X	X	TSK
CANADA	BASIN	BF190	74	56.22	138	44.24	75	8	10	21	180	X	X	X	TSK
CANADA	BASIN	BF191	74	55.54	138	39.75	75	8	11	5	190	X	X	X	TSK
CANADA	BASIN	BF192	74	53.94	138	34.86	75	8	11	11	100	X	X	X	TSK
CANADA	BASIN	BF193	74	53.08	138	25.38	75	8	11	21	190	X	X	X	TSK
CANADA	BASIN	BF194	74	51.86	138	19.06	75	8	12	5	190	X	X	X	TSK
CANADA	BASIN	BF195	74	51.86	138	17.60	75	8	12	6	100	X	X	X	TSK
CANADA	BASIN	BF196	74	50.08	138	1.63	75	8	12	21	160	X	X	X	TSK
CANADA	BASIN	BF197	74	50.22	137	56.51	75	8	13	5	157	X	X	X	TSK
CANADA	BASIN	BF198	74	50.27	137	56.25	75	8	13	5	114	X	X	X	TSK
CANADA	BASIN	BF199	74	54.41	137	39.72	75	8	13	21	190	X	X	X	TSK
CANADA	BASIN	BF200	74	52.89	137	28.88	75	8	14	6	190	X	X	X	TSK
CANADA	BASIN	BF201	74	50.37	137	16.78	75	8	14	16	103	X	X	X	TSK
CANADA	BASIN	BF202	74	50.09	137	11.22	75	8	14	21	190	X	X	X	TSK
CANADA	BASIN	BF203	74	49.54	137	7.03	75	8	15	6	190	X	X	X	TSK
CANADA	BASIN	BF204	74	49.66	137	6.56	75	8	15	8	*	X	X	X	TSK
CANADA	BASIN	BF205	74	49.80	137	5.97	75	8	15	21	190	X	X	X	TSK
CANADA	BASIN	BF206	74	49.07	137	5.94	75	8	16	5	190	X	X	X	TSK
CANADA	BASIN	BF207	74	49.17	137	5.44	75	8	16	6	*	X	X	X	TSK
CANADA	BASIN	BF208	74	48.49	137	1.93	75	8	16	21	190	X	X	X	TSK
CANADA	BASIN	BF209	74	45.91	137	1.28	75	8	17	5	200	X	X	X	TSK
CANADA	BASIN	BF210	74	45.61	137	1.99	75	8	17	6	100	X	X	X	TSK
CANADA	BASIN	BF211	74	42.73	137	9.60	75	8	17	21	190	X	X	X	TSK
CANADA	BASIN	BF212	74	41.72	137	11.87	75	8	18	5	190	X	X	X	TSK
CANADA	BASIN	BF213	74	40.29	137	12.96	75	8	18	20	190	X	X	X	TSK
CANADA	BASIN	BF214	74	39.50	137	16.51	75	8	19	5	200	X	X	X	TSK
CANADA	BASIN	BF215	74	39.39	137	25.78	75	8	19	21	200	X	X	X	TSK
CANADA	BASIN	BF216	74	40.24	137	33.20	75	8	20	5	200	X	X	X	TSK
CANADA	BASIN	BF217	74	40.92	137	51.29	75	8	20	21	200	X	X	X	TSK
CANADA	BASIN	BF218	74	41.72	137	58.09	75	8	21	5	190	X	X	X	TSK
CANADA	BASIN	BF219	74	41.80	138	8.94	75	8	21	21	190	X	X	X	TSK
CANADA	BASIN	BF220	74	41.76	138	10.86	75	8	22	6	200	X	X	X	TSK
CANADA	BASIN	BF221	74	39.30	138	13.25	75	8	22	21	200	X	X	X	TSK
CANADA	BASIN	BF222	74	37.79	138	10.45	75	8	23	7	190	X	X	X	TSK
CANADA	BASIN	BF223	74	35.05	138	11.32	75	8	23	21	200	X	X	X	TSK
CANADA	BASIN	BF224	74	35.25	138	14.01	75	8	24	5	190	X	X	X	TSK
CANADA	BASIN	BF225	74	35.67	138	12.50	75	8	24	21	190	X	X	X	TSK
CANADA	BASIN	BF226	74	35.92	138	4.85	75	8	25	5	180	X	X	X	TSK
CANADA	BASIN	BF227	74	34.08	137	52.84	75	8	25	21	190	X	X	X	TSK
CANADA	BASIN	BF228	74	33.67	137	52.88	75	8	26	5	190	X	X	X	TSK
CANADA	BASIN	BF229	74	36.43	137	51.75	75	8	26	21	190	X	X	X	TSK
CANADA	BASIN	BF230	74	36.98	137	44.74	75	8	27	5	180	X	X	X	TSK
CANADA	BASIN	BF231	74	32.30	137	27.63	75	8	27	20	140	X	X	X	TSK
CANADA	BASIN	BF232	74	28.19	137	15.61	75	8	28	6	180	X	X	X	TSK
CANADA	BASIN	BF233	74	24.17	136	56.31	75	8	28	21	190	X	X	X	TSK
CANADA	BASIN	BF234	74	24.33	136	49.12	75	8	29	5	150	X	X	X	TSK
CANADA	BASIN	BF235	74	22.53	136	42.02	75	8	29	23	190	X	X	X	TSK
CANADA	BASIN	BF236	74	20.03	136	37.56	75	8	30	5	190	X	X	X	TSK
CANADA	BASIN	BF237	74	15.84	136	36.28	75	8	30	21	200	X	X	X	TSK
CANADA	BASIN	BF238	74	14.03	136	33.03	75	8	31	5	200	X	X	X	TSK
CANADA	BASIN	BF239	74	10.01	136	32.00	75	8	31	21	200	X	X	X	TSK
CANADA	BASIN	BF240	74	7.81	136	23.54	75	9	1	5	200	X	X	X	TSK
CANADA	BASIN	BF241	74	3.56	136	13.20	75	9	1	17	100	X	X	X	TSK
CANADA	BASIN	BF242	74	2.38	136	11.77	75	9	1	21	200	X	X	X	TSK
CANADA	BASIN	BF243	74	0.88	136	9.78	75	9	2	5	190	X	X	X	TSK
CANADA	BASIN	BF244	74	0.74	136	9.63	75	9	2	6	100	X	X	X	TSK
CANADA	BASIN	BF245	74	0.83	136	12.39	75	9	2	21	200	X	X	X	TSK
CANADA	BASIN	BF246	74	0.62	136	13.53	75	9	3	5	200	X	X	X	TSK
CANADA	BASIN	BF247	74	0.81	136	13.45	75	9	3	16	100	X	X	X	TSK
CANADA	BASIN	BF248	74	1.25	136	12.16	75	9	3	21	200	X	X	X	TSK

CANADA BASIN	BF249	74	1.39	136	8.32	75	9	4	5	190	X	X	X	TSK
CANADA BASIN	BF250	74	1.36	136	7.62	75	9	4	6	100	X	X	X	TSK
CANADA BASIN	BF251	74	1.72	136	4.72	75	9	4	21	200	X	X	X	TSK
CANADA BASIN	BF252	74	1.65	136	5.23	75	9	5	5	192	X	X	X	TSK
CANADA BASIN	BF253	73	58.00	136	7.29	75	9	5	21	190	X	X	X	TSK
CANADA BASIN	BF254	73	56.22	136	11.20	75	9	6	5	200	X	X	X	TSK
CANADA BASIN	BF255	73	53.92	136	18.40	75	9	6	21	190	X	X	X	TSK
CANADA BASIN	BF256	73	53.08	136	24.09	75	9	7	5	190	X	X	X	TSK
CANADA BASIN	BF257	73	53.05	136	24.56	75	9	7	6	190	X	X	X	TSK
CANADA BASIN	BF258	73	51.78	136	29.04	75	9	7	21	190	X	X	X	TSK
CANADA BASIN	BF259	73	51.02	136	26.47	75	9	8	5	190	X	X	X	TSK
CANADA BASIN	BF260	73	50.23	136	12.26	75	9	8	21	190	X	X	X	TSK
CANADA BASIN	BF261	73	50.22	136	1.98	75	9	9	5	190	X	X	X	TSK
CANADA BASIN	BF262	73	50.26	135	43.42	75	9	9	21	180	X	X	X	TSK
CANADA BASIN	BF263	73	49.99	135	32.64	75	9	10	5	190	X	X	X	TSK
CANADA BASIN	BF264	73	48.78	135	18.54	75	9	10	21	190	X	X	X	TSK
CANADA BASIN	BF265	73	48.67	135	12.14	75	9	11	5	190	X	X	X	TSK
CANADA BASIN	BF266	73	50.21	134	59.78	75	9	11	21	190	X	X	X	TSK
CANADA BASIN	BF267	73	49.87	134	54.48	75	9	12	5	190	X	X	X	TSK
CANADA BASIN	BF268	73	51.26	134	44.88	75	9	12	21	190	X	X	X	TSK
CANADA BASIN	BF269	73	51.67	134	36.41	75	9	13	5	190	X	X	X	TSK
CANADA BASIN	BF270	73	50.59	134	31.77	75	9	13	21	200	X	X	X	TSK
CANADA BASIN	BF271	73	49.99	134	29.73	75	9	14	5	200	X	X	X	TSK
CANADA BASIN	BF272	73	48.65	134	21.94	75	9	14	21	200	X	X	X	TSK
CANADA BASIN	BF273	73	48.09	134	26.17	75	9	15	5	190	X	X	X	TSK
CANADA BASIN	BF274	73	48.49	134	33.33	75	9	15	20	190	X	X	X	TSK
CANADA BASIN	BF275	73	49.07	134	37.63	75	9	16	5	200	X	X	X	TSK
CANADA BASIN	BF276	73	49.41	134	42.95	75	9	16	21	200	X	X	X	TSK
CANADA BASIN	BF277	73	49.85	134	44.87	75	9	17	5	200	X	X	X	TSK
CANADA BASIN	BF278	73	51.39	134	45.08	75	9	17	21	190	X	X	X	TSK
CANADA BASIN	BF279	73	53.56	134	41.56	75	9	18	5	190	X	X	X	TSK
CANADA BASIN	BF280	73	53.52	134	40.01	75	9	18	20	190	X	X	X	TSK
CANADA BASIN	BF281	73	51.94	134	46.62	75	9	19	6	200	X	X	X	TSK
CANADA BASIN	BF282	73	50.10	135	1.23	75	9	19	21	200	X	X	X	TSK
CANADA BASIN	BF283	73	49.48	135	6.01	75	9	20	5	200	X	X	X	TSK
CANADA BASIN	BF284	73	46.09	134	59.30	75	9	20	21	190	X	X	X	TSK
CANADA BASIN	BF285	73	46.84	134	53.28	75	9	21	6	180	X	X	X	TSK
CANADA BASIN	BF286	73	46.39	134	28.47	75	9	21	21	170	X	X	X	TSK
CANADA BASIN	BF287	73	44.25	134	16.98	75	9	22	5	190	X	X	X	TSK
CANADA BASIN	BF288	73	43.06	134	12.58	75	9	22	21	200	X	X	X	TSK
CANADA BASIN	BF289	73	41.58	134	17.43	75	9	23	6	190	X	X	X	TSK
CANADA BASIN	BF290	73	40.30	134	26.47	75	9	23	21	200	X	X	X	TSK
CANADA BASIN	BF291	73	38.60	134	22.77	75	9	24	5	200	X	X	X	TSK
CANADA BASIN	BF292	73	34.80	134	3.57	75	9	25		200	X	X	X	TSK
CANADA BASIN	BF293	73	33.26	133	58.68	75	9	25	5	190	X	X	X	TSK
CANADA BASIN	BF294	73	29.98	134	0.95	75	9	25	21	200	X	X	X	TSK
CANADA BASIN	BF295	73	28.25	134	2.06	75	9	26	5	190	X	X	X	TSK
CANADA BASIN	BF296	73	25.95	134	0.43	75	9	26	23	190	X	X	X	TSK
CANADA BASIN	BF297	73	25.38	133	58.81	75	9	27	5	192	X	X	X	TSK
CANADA BASIN	BF298	73	23.01	133	51.73	75	9	27	23	190	X	X	X	TSK
CANADA BASIN	BF299	73	22.57	133	51.13	75	9	28	5	190	X	X	X	TSK
CANADA BASIN	BF300	73	21.45	133	50.34	75	9	28	21	200	X	X	X	TSK
CANADA BASIN	BF301	73	21.10	133	50.74	75	9	29	5	200	X	X	X	TSK
CANADA BASIN	BF302	73	20.70	133	52.20	75	9	29	21	200	X	X	X	TSK
CANADA BASIN	BF303	73	21.01	133	53.86	75	9	30	5	200	X	X	X	TSK
CANADA BASIN	BF304	73	22.13	134	1.89	75	9	30	21	190	X	X	X	TSK
CANADA BASIN	BF305	73	22.78	134	8.02	75	10	1	5	190	X	X	X	TSK
CANADA BASIN	BF306	73	23.57	134	22.94	75	10	1	21	190	X	X	X	TSK
CANADA BASIN	BF307	73	23.73	134	28.45	75	10	2	5	190	X	X	X	TSK
CANADA BASIN	BF308	73	24.56	134	38.54	75	10	2	21	190	X	X	X	TSK
CANADA BASIN	BF309	73	25.39	134	43.17	75	10	3	5	190	X	X	X	TSK
CANADA BASIN	BF310	73	26.96	134	51.89	75	10	3	21	190	X	X	X	TSK
CANADA BASIN	BF311	73	27.96	134	56.53	75	10	4	5	200	X	X	X	TSK
CANADA BASIN	BF312	73	30.73	135	5.44	75	10	4	21	190	X	X	X	TSK
CANADA BASIN	BF313	73	31.69	135	9.90	75	10	5	5	190	X	X	X	TSK
CANADA BASIN	BF314	73	32.31	135	15.93	75	10	5	21	190	X	X	X	TSK
CANADA BASIN	BF315	73	32.53	135	18.37	75	10	6	5	200	X	X	X	TSK
CANADA BASIN	BF316	73	33.20	135	23.43	75	10	6	21	190	X	X	X	TSK
CANADA BASIN	BF317	73	33.27	135	25.77	75	10	7	5	190	X	X	X	TSK
CANADA BASIN	BF318	73	29.83	135	25.37	75	10	7	21	160	X	X	X	TSK
CANADA BASIN	BF319	73	28.28	135	24.69	75	10	8	6	190	X	X	X	TSK
CANADA BASIN	BF320	73	27.07	135	23.25	75	10	8	21	190	X	X	X	TSK
CANADA BASIN	BF321	73	26.61	135	22.10	75	10	9	5	190	X	X	X	TSK
CANADA BASIN	BF322	73	25.65	135	21.35	75	10	9	21	190	X	X	X	TSK
CANADA BASIN	BF323	73	25.11	135	20.86	75	10	10	6	180	X	X	X	TSK
CANADA BASIN	BF324	73	24.47	135	22.83	75	10	11	1	190	X	X	X	TSK
CANADA BASIN	BF325	73	24.11	135	23.64	75	10	11	6	190	X	X	X	TSK
CANADA BASIN	BF326	73	22.56	135	23.65	75	10	11	21	190	X	X	X	TSK
CANADA BASIN	BF327	73	22.29	135	18.31	75	10	12	5	190	X	X	X	TSK
CANADA BASIN	BF328	73	22.53	135	8.82	75	10	12	21	190	X	X	X	TSK
CANADA BASIN	BF329	73	22.67	135	8.06	75	10	13	5	190	X	X	X	TSK
CANADA BASIN	BF330	73	20.96	135	17.29	75	10	13	21	190	X	X	X	TSK
CANADA BASIN	BF331	73	19.69	135	20.79	75	10	14	6	190	X	X	X	TSK

CANADA	BASIN	BF332	73	18.93	135	27.10	75	10	14	21	200	X	X	X	TSK
CANADA	BASIN	BF333	73	19.40	135	32.59	75	10	15	5	190	X	X	X	TSK
CANADA	BASIN	BF334	73	21.62	135	45.54	75	10	15	21	190	X	X	X	TSK
CANADA	BASIN	BF335	73	22.64	135	52.41	75	10	16	5	200	X	X	X	TSK
CANADA	BASIN	BF336	73	24.47	136	1.19	75	10	16	20	190	X	X	X	TSK
CANADA	BASIN	BF337	73	24.78	136	1.99	75	10	17	5	200	X	X	X	TSK
CANADA	BASIN	BF338	73	22.55	136	0.85	75	10	17	22	200	X	X	X	TSK
CANADA	BASIN	BF339	73	21.36	136	1.01	75	10	18	7	200	X	X	X	TSK
CANADA	BASIN	BF340	73	20.30	136	5.68	75	10	18	21	190	X	X	X	TSK
CANADA	BASIN	BF341	73	20.13	136	11.70	75	10	19	6	190	X	X	X	TSK
CANADA	BASIN	BF342	73	20.22	136	23.86	75	10	19	23	190	X	X	X	TSK
CANADA	BASIN	BF343	73	20.67	136	26.22	75	10	20	5	190	X	X	X	TSK
CANADA	BASIN	BF344	73	21.32	136	30.72	75	10	20	21	192	X	X	X	TSK
CANADA	BASIN	BF345	73	21.44	136	32.31	75	10	21	5	200	X	X	X	TSK
CANADA	BASIN	BF346	73	22.00	136	34.44	75	10	21	21	200	X	X	X	TSK
CANADA	BASIN	BF347	73	22.38	136	36.19	75	10	22	5	200	X	X	X	TSK
CANADA	BASIN	BF348	73	21.22	136	35.67	75	10	22	21	190	X	X	X	TSK
CANADA	BASIN	BF349	73	20.26	136	34.29	75	10	23	5	200	X	X	X	TSK
CANADA	BASIN	BF350	73	22.75	136	41.38	75	10	23	23	190	X	X	X	TSK
CANADA	BASIN	BF351	73	25.25	136	46.05	75	10	24	5	140	X	X	X	TSK
CANADA	BASIN	BF352	73	30.73	136	54.70	75	10	24	21	180	X	X	X	TSK
CANADA	BASIN	BF353	73	29.20	136	46.15	75	10	25	21	190	X	X	X	TSK
CANADA	BASIN	BF354	73	28.25	136	41.69	75	10	26	5	200	X	X	X	TSK
CANADA	BASIN	BF355	73	25.02	136	27.62	75	10	27		190	X	X	X	TSK
CANADA	BASIN	BF356	73	24.05	136	23.79	75	10	27	5	200	X	X	X	TSK
CANADA	BASIN	BF357	73	22.17	136	16.05	75	10	27	21	200	X	X	X	TSK
CANADA	BASIN	BF358	73	20.70	136	12.53	75	10	28	5	190	X	X	X	TSK
CANADA	BASIN	BF359	73	17.01	136	14.27	75	10	28	21	190	X	X	X	TSK
CANADA	BASIN	BF360	73	13.81	136	18.88	75	10	29	5	200	X	X	X	TSK
CANADA	BASIN	BF361	73	7.80	136	26.97	75	10	29	21	190	X	X	X	TSK
CANADA	BASIN	BF362	73	4.70	136	24.46	75	10	30	5	190	X	X	X	TSK
CANADA	BASIN	BF363	72	59.87	136	23.22	75	10	30	20	190	X	X	X	TSK
CANADA	BASIN	BF364	72	58.50	136	23.96	75	10	31	6	190	X	X	X	TSK
CANADA	BASIN	BF365	72	57.56	136	22.57	75	10	31	20	190	X	X	X	TSK
CANADA	BASIN	BF366	72	57.11	136	20.21	75	11	1	5	190	X	X	X	TSK
CANADA	BASIN	BF367	72	56.97	136	18.50	75	11	1	21	200	X	X	X	TSK
CANADA	BASIN	BF368	72	56.99	136	18.05	75	11	2	5	200	X	X	X	TSK
CANADA	BASIN	BF369	72	57.03	136	18.27	75	11	2	21	200	X	X	X	TSK
CANADA	BASIN	BF370	72	57.11	136	18.33	75	11	3	5	200	X	X	X	TSK
CANADA	BASIN	BF371	72	57.32	136	19.16	75	11	3	21	200	X	X	X	TSK
CANADA	BASIN	BF372	72	57.45	136	19.41	75	11	4	5	200	X	X	X	TSK
CANADA	BASIN	BF373	72	57.81	136	20.34	75	11	4	21	200	X	X	X	TSK
CANADA	BASIN	BF374	72	58.26	136	21.07	75	11	5	5	200	X	X	X	TSK
CANADA	BASIN	BF375	72	58.73	136	20.96	75	11	5	21	200	X	X	X	TSK
CANADA	BASIN	BF376	72	58.81	136	19.74	75	11	6	5	200	X	X	X	TSK
CANADA	BASIN	BF377	72	59.69	136	15.74	75	11	6	21	190	X	X	X	TSK
CANADA	BASIN	BF378	73	0.29	136	12.76	75	11	7	5	190	X	X	X	TSK
CANADA	BASIN	BF379	73	1.16	136	10.28	75	11	7	21	200	X	X	X	TSK
CANADA	BASIN	BF380	73	1.62	136	10.78	75	11	8	5	200	X	X	X	TSK
CANADA	BASIN	BF381	73	3.58	136	12.40	75	11	8	21	190	X	X	X	TSK
CANADA	BASIN	BF382	73	3.88	136	10.21	75	11	9	5	200	X	X	X	TSK
CANADA	BASIN	BF383	73	2.58	136	6.99	75	11	9	21	200	X	X	X	TSK
CANADA	BASIN	BF384	73	2.03	136	6.10	75	11	10	5	190	X	X	X	TSK
CANADA	BASIN	BF385	73	0.92	136	5.08	75	11	10	21	200	X	X	X	TSK
CANADA	BASIN	BF386	73	0.34	136	4.35	75	11	11	5	200	X	X	X	TSK
CANADA	BASIN	BF387	73	0.08	136	3.89	75	11	11	21	200	X	X	X	TSK
CANADA	BASIN	BF388	73	0.04	136	3.91	75	11	12	5	200	X	X	X	TSK
CANADA	BASIN	BF389	72	59.66	136	8.97	75	11	12	20	190	X	X	X	TSK
CANADA	BASIN	BF390	72	59.08	136	16.02	75	11	13	7	190	X	X	X	TSK
CANADA	BASIN	BF391	72	57.00	136	27.00	75	11	13	21	192	X	X	X	TSK
CANADA	BASIN	BF392	72	54.82	136	33.64	75	11	14	7	190	X	X	X	TSK
CANADA	BASIN	BF393	72	52.25	136	33.43	75	11	14	21	190	X	X	X	TSK
CANADA	BASIN	BF394	72	50.52	136	30.89	75	11	15	7	190	X	X	X	TSK
CANADA	BASIN	BF395	72	49.31	136	26.51	75	11	15	21	190	X	X	X	TSK
CANADA	BASIN	BF396	72	48.35	136	22.20	75	11	16	7	190	X	X	X	TSK
CANADA	BASIN	BF397	72	47.66	136	17.67	75	11	16	21	190	X	X	X	TSK
CANADA	BASIN	BF398	72	47.60	136	16.47	75	11	17	5	190	X	X	X	TSK
CANADA	BASIN	BF399	72	47.60	136	16.30	75	11	17	21	191	X	X	X	TSK
CANADA	BASIN	BF400	72	47.58	136	16.34	75	11	18	5	190	X	X	X	TSK
CANADA	BASIN	BF401	72	47.58	136	16.57	75	11	18	21	190	X	X	X	TSK
CANADA	BASIN	BF402	72	47.58	136	16.38	75	11	19	5	190	X	X	X	TSK
CANADA	BASIN	BF403	72	47.57	136	16.37	75	11	19	21	190	X	X	X	TSK
CANADA	BASIN	BF404	72	47.67	136	17.12	75	11	20	5	200	X	X	X	TSK
CANADA	BASIN	BF405	72	49.27	136	20.14	75	11	20	21	200	X	X	X	TSK
CANADA	BASIN	BF406	72	50.97	136	21.74	75	11	21	7	190	X	X	X	TSK
CANADA	BASIN	BF407	72	54.64	136	24.50	75	11	21	21	190	X	X	X	TSK
CANADA	BASIN	BF408	72	57.43	136	27.95	75	11	22	7	200	X	X	X	TSK
CANADA	BASIN	BF409	73	2.62	136	29.33	75	11	22	21	190	X	X	X	TSK
CANADA	BASIN	BF410	73	4.88	136	28.71	75	11	23	7	190	X	X	X	TSK
CANADA	BASIN	BF411	73	6.03	136	33.18	75	11	23	21	190	X	X	X	TSK
CANADA	BASIN	BF412	73	6.24	136	34.25	75	11	24	5	200	X	X	X	TSK
CANADA	BASIN	BF413	73	5.70	136	32.91	75	11	24	21	200	X	X	X	TSK
CANADA	BASIN	BF414	73	5.31	136	34.04	75	11	25	5	190	X	X	X	TSK

CANADA	BASIN	BF415	73	5.39	136	38.34	75	11	25	21	196	X	X	X	TSK
CANADA	BASIN	BF416	73	5.66	136	38.83	75	11	26	5	190	X	X	X	TSK
CANADA	BASIN	BF417	73	5.92	136	39.59	75	11	26	21	200	X	X	X	TSK
CANADA	BASIN	BF418	73	5.90	136	39.53	75	11	27	5	200	X	X	X	TSK
CANADA	BASIN	BF419	73	6.27	136	40.25	75	11	27	21	200	X	X	X	TSK
CANADA	BASIN	BF420	73	6.56	136	41.92	75	11	28	5	200	X	X	X	TSK
CANADA	BASIN	BF421	73	8.07	136	49.31	75	11	28	21	190	X	X	X	TSK
CANADA	BASIN	BF422	73	8.67	136	54.13	75	11	29	7	190	X	X	X	TSK
CANADA	BASIN	BF423	73	8.56	136	57.69	75	11	29	21	200	X	X	X	TSK
CANADA	BASIN	BF424	73	8.15	136	58.01	75	11	30	5	190	X	X	X	TSK
CANADA	BASIN	BF425	73	7.09	136	55.89	75	11	30	21	190	X	X	X	TSK
CANADA	BASIN	BF426	73	6.12	136	51.46	75	12	1	5	190	X	X	X	TSK
CANADA	BASIN	BF427	72	57.10	136	47.09	75	12	6	6	200	X	X	X	TSK
CANADA	BASIN	BF428	72	57.10	136	47.11	75	12	6	21	200	X	X	X	TSK
CANADA	BASIN	BF429	72	57.05	136	47.22	75	12	7	5	200	X	X	X	TSK
CANADA	BASIN	BF430	72	57.18	136	46.88	75	12	7	21	200	X	X	X	TSK
CANADA	BASIN	BF431	72	57.27	136	46.64	75	12	8	5	200	X	X	X	TSK
CANADA	BASIN	BF432	72	58.04	136	47.79	75	12	8	21	200	X	X	X	TSK
CANADA	BASIN	BF433	72	58.21	136	48.74	75	12	9	5	200	X	X	X	TSK
CANADA	BASIN	BF434	72	58.09	136	48.63	75	12	9	21	200	X	X	X	TSK
CANADA	BASIN	BF435	72	57.87	136	46.82	75	12	10	5	200	X	X	X	TSK
CANADA	BASIN	BF436	72	57.26	136	41.50	75	12	10	21	200	X	X	X	TSK
CANADA	BASIN	BF437	72	56.99	136	41.09	75	12	11	5	190	X	X	X	TSK
CANADA	BASIN	BF438	72	56.61	136	40.75	75	12	11	21	200	X	X	X	TSK
CANADA	BASIN	BF439	72	56.63	136	40.53	75	12	12	5	200	X	X	X	TSK
CANADA	BASIN	BF440	72	56.60	136	40.60	75	12	12	21	200	X	X	X	TSK
CANADA	BASIN	BF441	72	56.62	136	40.65	75	12	13	5	200	X	X	X	TSK
CANADA	BASIN	BF442	72	56.75	136	41.78	75	12	13	21	190	X	X	X	TSK
CANADA	BASIN	BF443	72	57.28	136	44.45	75	12	14	5	200	X	X	X	TSK
CANADA	BASIN	BF444	72	58.20	136	50.35	75	12	14	20	190	X	X	X	TSK
CANADA	BASIN	BF445	72	58.58	136	51.38	75	12	15	5	200	X	X	X	TSK
CANADA	BASIN	BF446	72	59.42	136	49.68	75	12	15	21	200	X	X	X	TSK
CANADA	BASIN	BF447	72	59.77	136	48.86	75	12	16	5	200	X	X	X	TSK
CANADA	BASIN	BF448	73	1.07	136	52.78	75	12	16	21	190	X	X	X	TSK
CANADA	BASIN	BF449	73	2.84	137	1.62	75	12	17	7	190	X	X	X	TSK
CANADA	BASIN	BF450	73	3.84	137	14.09	75	12	17	20	190	X	X	X	TSK
CANADA	BASIN	BF451	73	1.59	137	14.90	75	12	18	7	190	X	X	X	TSK
CANADA	BASIN	BF452	72	57.33	137	8.39	75	12	19	1	190	X	X	X	TSK
CANADA	BASIN	BF453	72	56.62	137	6.52	75	12	19	5	200	X	X	X	TSK
CANADA	BASIN	BF454	72	55.60	137	1.21	75	12	19	21	200	X	X	X	TSK
CANADA	BASIN	BF455	72	55.55	137	0.50	75	12	20	7	200	X	X	X	TSK
CANADA	BASIN	BF456	72	55.51	136	59.47	75	12	20	21	200	X	X	X	TSK
CANADA	BASIN	BF457	72	55.38	136	58.56	75	12	21	5	200	X	X	X	TSK
CANADA	BASIN	BF458	72	55.33	136	58.38	75	12	21	21	200	X	X	X	TSK
CANADA	BASIN	BF459	72	55.36	136	58.28	75	12	22	5	200	X	X	X	TSK
CANADA	BASIN	BF460	72	55.93	137	2.20	75	12	22	21	200	X	X	X	TSK
CANADA	BASIN	BF461	72	56.30	137	4.36	75	12	23	5	200	X	X	X	TSK
CANADA	BASIN	BF462	72	56.43	137	5.76	75	12	23	21	200	X	X	X	TSK
CANADA	BASIN	BF463	72	56.28	137	5.37	75	12	24	5	200	X	X	X	TSK
CANADA	BASIN	BF464	72	55.31	137	3.54	75	12	24	21	200	X	X	X	TSK
CANADA	BASIN	BF465	72	54.90	137	2.32	75	12	25	5	200	X	X	X	TSK
CANADA	BASIN	BF466	72	54.81	137	2.15	75	12	26		200	X	X	X	TSK
CANADA	BASIN	BF467	72	54.80	137	2.07	75	12	26	5	200	X	X	X	TSK
CANADA	BASIN	BF468	72	54.79	137	2.17	75	12	26	21	200	X	X	X	TSK
CANADA	BASIN	BF469	72	54.87	137	3.31	75	12	27	5	200	X	X	X	TSK
CANADA	BASIN	BF470	72	55.51	137	9.97	75	12	27	21	190	X	X	X	TSK
CANADA	BASIN	BF471	72	56.31	137	16.53	75	12	28	7	190	X	X	X	TSK
CANADA	BASIN	BF472	72	57.49	137	22.71	75	12	28	21	190	X	X	X	TSK
CANADA	BASIN	BF473	72	57.76	137	23.09	75	12	29	5	200	X	X	X	TSK
CANADA	BASIN	BF474	72	57.05	137	17.50	75	12	29	21	200	X	X	X	TSK
CANADA	BASIN	BF475	72	56.15	137	12.47	75	12	30	6	200	X	X	X	TSK
CANADA	BASIN	BF476	72	55.31	137	8.80	75	12	30	21	200	X	X	X	TSK
CANADA	BASIN	BF477	72	55.30	137	8.30	75	12	31	5	200	X	X	X	TSK
CANADA	BASIN	BF478	72	56.13	137	10.94	75	12	31	21	190	X	X	X	TSK
CANADA	BASIN	BF479	72	57.39	137	15.58	76	1	1	7	190	X	X	X	TSK
CANADA	BASIN	BF480	72	59.59	137	20.78	76	1	1	21	200	X	X	X	TSK
CANADA	BASIN	BF481	72	59.65	137	20.52	76	1	2	6	200	X	X	X	TSK
CANADA	BASIN	BF482	72	59.41	137	23.85	76	1	2	21	200	X	X	X	TSK
CANADA	BASIN	BF483	73	0.50	137	30.03	76	1	3	7	190	X	X	X	TSK
CANADA	BASIN	BF484	73	3.72	137	36.77	76	1	3	21	200	X	X	X	TSK
CANADA	BASIN	BF485	73	6.26	137	39.82	76	1	4	7	190	X	X	X	TSK
CANADA	BASIN	BF486	73	9.20	137	44.55	76	1	4	21	200	X	X	X	TSK
CANADA	BASIN	BF487	73	10.75	137	49.39	76	1	5	7	190	X	X	X	TSK
CANADA	BASIN	BF488	73	11.23	137	51.12	76	1	5	21	190	X	X	X	TSK
CANADA	BASIN	BF489	73	10.87	137	51.76	76	1	6	5	190	X	X	X	TSK
CANADA	BASIN	BF490	73	10.21	137	49.13	76	1	6	21	200	X	X	X	TSK
CANADA	BASIN	BF491	73	10.52	137	47.52	76	1	7	5	190	X	X	X	TSK
CANADA	BASIN	BF492	73	11.09	137	49.21	76	1	7	21	190	X	X	X	TSK
CANADA	BASIN	BF493	73	11.13	137	49.98	76	1	8	5	190	X	X	X	TSK
CANADA	BASIN	BF494	73	10.75	137	51.42	76	1	8	21	200	X	X	X	TSK
CANADA	BASIN	BF495	73	10.06	137	51.72	76	1	9	5	200	X	X	X	TSK
CANADA	BASIN	BF496	73	7.50	137	49.59	76	1	9	23	190	X	X	X	TSK
CANADA	BASIN	BF497	73	6.49	137	46.63	76	1	10	7	190	X	X	X	TSK

CANADA	BASIN	BF498	73	5.27	137	37.64	76	1	10	21	190	X	X	X	TSK
CANADA	BASIN	BF499	73	5.40	137	28.20	76	1	11	7	200	X	X	X	TSK
CANADA	BASIN	BF500	73	1.10	137	19.84	76	1	11	21	190	X	X	X	TSK
CANADA	BASIN	BF501	72	58.48	137	13.18	76	1	12	7	190	X	X	X	TSK
CANADA	BASIN	BF502	72	58.50	137	11.33	76	1	12	21	200	X	X	X	TSK
CANADA	BASIN	BF503	72	58.50	137	11.25	76	1	13	5	200	X	X	X	TSK
CANADA	BASIN	BF504	72	58.49	137	11.32	76	1	13	21	200	X	X	X	TSK
CANADA	BASIN	BF505	72	58.52	137	11.25	76	1	14	5	200	X	X	X	TSK
CANADA	BASIN	BF506	72	58.96	137	12.08	76	1	14	21	200	X	X	X	TSK
CANADA	BASIN	BF507	72	59.92	137	13.40	76	1	15	5	200	X	X	X	TSK
CANADA	BASIN	BF508	73	0.46	137	14.24	76	1	15	23	200	X	X	X	TSK
CANADA	BASIN	BF509	72	59.95	137	12.83	76	1	16	5	200	X	X	X	TSK
CANADA	BASIN	BF510	72	58.94	137	8.76	76	1	16	21	200	X	X	X	TSK
CANADA	BASIN	BF511	72	58.99	137	8.93	76	1	17	5	200	X	X	X	TSK
CANADA	BASIN	BF512	72	58.68	137	11.52	76	1	17	21	200	X	X	X	TSK
CANADA	BASIN	BF513	72	58.28	137	11.83	76	1	18	5	200	X	X	X	TSK
CANADA	BASIN	BF514	72	57.92	137	11.59	76	1	18	21	200	X	X	X	TSK
CANADA	BASIN	BF515	72	57.75	137	11.40	76	1	19	5	200	X	X	X	TSK
CANADA	BASIN	BF516	72	57.18	137	8.09	76	1	19	21	190	X	X	X	TSK
CANADA	BASIN	BF517	72	56.82	137	4.89	76	1	20	6	200	X	X	X	TSK
CANADA	BASIN	BF518	72	56.77	137	4.01	76	1	20	21	200	X	X	X	TSK
CANADA	BASIN	BF519	72	56.74	137	3.92	76	1	21	5	200	X	X	X	TSK
CANADA	BASIN	BF520	72	56.31	137	7.16	76	1	21	21	190	X	X	X	TSK
CANADA	BASIN	BF521	72	55.66	137	12.93	76	1	22	7	192	X	X	X	TSK
CANADA	BASIN	BF522	72	55.35	137	13.68	76	1	22	21	190	X	X	X	TSK
CANADA	BASIN	BF523	72	54.89	137	14.51	76	1	23	5	190	X	X	X	TSK
CANADA	BASIN	BF524	72	54.13	137	14.15	76	1	23	21	190	X	X	X	TSK
CANADA	BASIN	BF525	72	53.93	137	13.13	76	1	24	5	190	X	X	X	TSK
CANADA	BASIN	BF526	72	53.38	137	10.26	76	1	24	21	190	X	X	X	TSK
CANADA	BASIN	BF527	72	53.24	137	10.09	76	1	25	5	190	X	X	X	TSK
CANADA	BASIN	BF528	72	53.21	137	10.04	76	1	25	21	190	X	X	X	TSK
CANADA	BASIN	BF529	72	53.15	137	10.17	76	1	26	5	190	X	X	X	TSK
CANADA	BASIN	BF530	72	53.16	137	10.08	76	1	26	21	191	X	X	X	TSK
CANADA	BASIN	BF531	72	53.16	137	10.19	76	1	27	5	190	X	X	X	TSK
CANADA	BASIN	BF532	72	53.15	137	10.40	76	1	27	21	190	X	X	X	TSK
CANADA	BASIN	BF533	72	53.15	137	10.11	76	1	28	5	190	X	X	X	TSK
CANADA	BASIN	BF534	72	53.16	137	10.11	76	1	28	21	190	X	X	X	TSK
CANADA	BASIN	BF535	72	53.17	137	10.22	76	1	29	5	190	X	X	X	TSK
CANADA	BASIN	BF536	72	53.18	137	10.37	76	1	29	21	190	X	X	X	TSK
CANADA	BASIN	BF537	72	53.39	137	12.22	76	1	30	7	190	X	X	X	TSK
CANADA	BASIN	BF538	72	55.55	137	27.73	76	1	30	23	190	X	X	X	TSK
CANADA	BASIN	BF539	72	56.35	137	35.67	76	1	31	7	190	X	X	X	TSK
CANADA	BASIN	BF540	72	57.75	137	48.41	76	1	32	12	190	X	X	X	TSK
CANADA	BASIN	BF541	72	57.50	137	47.07	76	2	1	5	200	X	X	X	TSK
CANADA	BASIN	BF542	72	58.16	137	48.93	76	2	1	21	200	X	X	X	TSK
CANADA	BASIN	BF543	72	58.13	137	47.95	76	2	2	5	190	X	X	X	TSK
CANADA	BASIN	BF544	72	57.24	137	43.15	76	2	2	21	190	X	X	X	TSK
CANADA	BASIN	BF545	72	56.96	137	39.76	76	2	3	5	190	X	X	X	TSK
CANADA	BASIN	BF546	72	56.82	137	36.47	76	2	3	21	200	X	X	X	TSK
CANADA	BASIN	BF547	72	56.66	137	37.48	76	2	4	5	200	X	X	X	TSK
CANADA	BASIN	BF548	72	56.00	137	35.61	76	2	4	21	200	X	X	X	TSK
CANADA	BASIN	BF549	72	55.94	137	36.11	76	2	5	5	200	X	X	X	TSK
CANADA	BASIN	BF550	72	55.66	137	37.17	76	2	5	21	200	X	X	X	TSK
CANADA	BASIN	BF551	72	55.01	137	37.69	76	2	6	5	190	X	X	X	TSK
CANADA	BASIN	BF552	72	52.55	137	29.58	76	2	6	23	190	X	X	X	TSK
CANADA	BASIN	BF553	72	51.81	137	23.79	76	2	7	7	190	X	X	X	TSK
CANADA	BASIN	BF554	72	50.09	137	13.18	76	2	7	21	190	X	X	X	TSK
CANADA	BASIN	BF555	72	49.31	137	10.28	76	2	8	7	190	X	X	X	TSK
CANADA	BASIN	BF556	72	48.14	137	4.77	76	2	8	21	192	X	X	X	TSK
CANADA	BASIN	BF557	72	47.56	137	0.88	76	2	9	6	190	X	X	X	TSK
CANADA	BASIN	BF558	72	47.18	136	57.92	76	2	9	21	200	X	X	X	TSK
CANADA	BASIN	BF559	72	47.19	136	58.00	76	2	10	5	200	X	X	X	TSK
CANADA	BASIN	BF560	72	47.18	136	58.03	76	2	10	21	200	X	X	X	TSK
CANADA	BASIN	BF561	72	47.23	136	57.92	76	2	11	6	200	X	X	X	TSK
CANADA	BASIN	BF562	72	47.18	136	57.89	76	2	11	21	200	X	X	X	TSK
CANADA	BASIN	BF563	72	47.19	136	57.92	76	2	12	6	200	X	X	X	TSK
CANADA	BASIN	BF564	72	47.17	136	57.72	76	2	12	21	200	X	X	X	TSK
CANADA	BASIN	BF565	72	47.16	136	57.89	76	2	13	5	200	X	X	X	TSK
CANADA	BASIN	BF566	72	47.16	136	57.81	76	2	13	21	200	X	X	X	TSK
CANADA	BASIN	BF567	72	47.16	136	58.29	76	2	14	5	200	X	X	X	TSK
CANADA	BASIN	BF568	72	47.18	136	57.99	76	2	14	21	200	X	X	X	TSK
CANADA	BASIN	BF569	72	47.17	136	57.97	76	2	15	5	200	X	X	X	TSK
CANADA	BASIN	BF570	72	47.16	136	57.80	76	2	15	21	200	X	X	X	TSK
CANADA	BASIN	BF571	72	47.15	136	57.90	76	2	16	5	200	X	X	X	TSK
CANADA	BASIN	BF572	72	47.18	136	57.87	76	2	16	21	200	X	X	X	TSK
CANADA	BASIN	BF573	72	47.16	136	57.86	76	2	17	5	200	X	X	X	TSK
CANADA	BASIN	BF574	72	47.14	136	57.76	76	2	17	21	200	X	X	X	TSK
CANADA	BASIN	BF575	72	47.15	136	57.96	76	2	18	5	200	X	X	X	TSK
CANADA	BASIN	BF576	72	47.16	136	57.85	76	2	18	21	200	X	X	X	TSK
CANADA	BASIN	BF577	72	47.16	136	57.89	76	2	19	5	200	X	X	X	TSK
CANADA	BASIN	BF578	72	47.16	136	57.85	76	2	19	21	200	X	X	X	TSK
CANADA	BASIN	BF579	72	47.16	136	57.90	76	2	20	5	200	X	X	X	TSK
CANADA	BASIN	BF580	72	47.16	136	57.64	76	2	20	21	200	X	X	X	TSK

CANADA	BASIN	BF581	72	47.15	136	57.96	76	2	21	5	200	X	X	X	TSK
CANADA	BASIN	BF582	72	47.16	136	57.79	76	2	21	21	200	X	X	X	TSK
CANADA	BASIN	BF583	72	47.17	136	57.92	76	2	22	5	200	X	X	X	TSK
CANADA	BASIN	BF584	72	47.16	136	57.85	76	2	22	21	200	X	X	X	TSK
CANADA	BASIN	BF585	72	47.16	136	57.95	76	2	23	5	200	X	X	X	TSK
CANADA	BASIN	BF586	72	47.15	136	57.89	76	2	23	21	200	X	X	X	TSK
CANADA	BASIN	BF587	72	47.15	136	57.93	76	2	24	5	200	X	X	X	TSK
CANADA	BASIN	BF588	72	47.16	136	57.90	76	2	24	21	200	X	X	X	TSK
CANADA	BASIN	BF589	72	47.15	136	58.03	76	2	25	5	200	X	X	X	TSK
CANADA	BASIN	BF590	72	47.14	136	57.70	76	2	25	21	200	X	X	X	TSK
CANADA	BASIN	BF591	72	47.16	136	58.05	76	2	26	5	200	X	X	X	TSK
CANADA	BASIN	BF592	72	47.15	136	57.90	76	2	26	21	200	X	X	X	TSK
CANADA	BASIN	BF593	72	47.39	136	58.44	76	2	27	5	190	X	X	X	TSK
CANADA	BASIN	BF594	72	47.95	136	56.24	76	2	27	21	200	X	X	X	TSK
CANADA	BASIN	BF595	72	47.81	136	56.14	76	2	28	5	200	X	X	X	TSK
CANADA	BASIN	BF596	72	47.81	136	55.94	76	2	28	21	200	X	X	X	TSK
CANADA	BASIN	BF597	72	47.81	136	56.25	76	2	29	5	200	X	X	X	TSK
CANADA	BASIN	BF598	72	48.83	136	59.28	76	2	29	21	200	X	X	X	TSK
CANADA	BASIN	BF599	72	49.74	137	1.79	76	3	1	5	190	X	X	X	TSK
CANADA	BASIN	BF600	72	50.14	137	2.39	76	3	1	21	200	X	X	X	TSK
CANADA	BASIN	BF601	72	50.17	137	2.77	76	3	2	5	200	X	X	X	TSK
CANADA	BASIN	BF602	72	49.47	137	0.59	76	3	2	21	190	X	X	X	TSK
CANADA	BASIN	BF603	72	49.04	137	0.41	76	3	3	5	200	X	X	X	TSK
CANADA	BASIN	BF604	72	48.93	137	1.45	76	3	3	21	200	X	X	X	TSK
CANADA	BASIN	BF605	72	49.70	137	7.52	76	3	4	6	190	X	X	X	TSK
CANADA	BASIN	BF606	72	49.75	137	16.32	76	3	4	21	190	X	X	X	TSK
CANADA	BASIN	BF607	72	49.04	137	18.83	76	3	5	5	200	X	X	X	TSK
CANADA	BASIN	BF608	72	47.93	137	15.67	76	3	5	21	190	X	X	X	TSK
CANADA	BASIN	BF609	72	47.55	137	13.66	76	3	6	5	200	X	X	X	TSK
CANADA	BASIN	BF610	72	47.48	137	12.51	76	3	6	21	200	X	X	X	TSK
CANADA	BASIN	BF611	72	47.47	137	13.00	76	3	7	5	200	X	X	X	TSK
CANADA	BASIN	BF612	72	47.53	137	14.71	76	3	7	21	190	X	X	X	TSK
CANADA	BASIN	BF613	72	47.61	137	18.13	76	3	8	5	200	X	X	X	TSK
CANADA	BASIN	BF614	72	48.00	137	22.51	76	3	8	21	190	X	X	X	TSK
CANADA	BASIN	BF615	72	48.15	137	23.60	76	3	9	5	200	X	X	X	TSK
CANADA	BASIN	BF616	72	48.10	137	23.29	76	3	9	21	200	X	X	X	TSK
CANADA	BASIN	BF617	72	48.11	137	23.25	76	3	10	5	200	X	X	X	TSK
CANADA	BASIN	BF618	72	48.09	137	23.36	76	3	10	21	200	X	X	X	TSK
CANADA	BASIN	BF619	72	48.10	137	23.31	76	3	11	5	200	X	X	X	TSK
CANADA	BASIN	BF620	72	48.10	137	23.22	76	3	11	21	200	X	X	X	TSK
CANADA	BASIN	BF621	72	48.10	137	23.35	76	3	12	5	190	X	X	X	TSK
CANADA	BASIN	BF622	72	48.10	137	23.23	76	3	12	21	200	X	X	X	TSK
CANADA	BASIN	BF623	72	48.09	137	23.13	76	3	13	5	190	X	X	X	TSK
CANADA	BASIN	BF624	72	48.07	137	23.17	76	3	13	21	200	X	X	X	TSK
CANADA	BASIN	BF625	72	47.99	137	22.51	76	3	14	5	190	X	X	X	TSK
CANADA	BASIN	BF626	72	47.07	137	19.33	76	3	14	20	190	X	X	X	TSK
CANADA	BASIN	BF627	72	46.28	137	16.61	76	3	15	5	190	X	X	X	TSK
CANADA	BASIN	BF628	72	45.19	137	13.67	76	3	15	21	200	X	X	X	TSK
CANADA	BASIN	BF629	72	45.06	137	13.03	76	3	16	5	200	X	X	X	TSK
CANADA	BASIN	BF630	72	45.06	137	13.27	76	3	16	21	200	X	X	X	TSK
CANADA	BASIN	BF631	72	44.26	137	11.90	76	3	17	7	190	X	X	X	TSK
CANADA	BASIN	BF632	72	43.39	137	9.79	76	3	17	21	200	X	X	X	TSK
CANADA	BASIN	BF633	72	43.39	137	9.98	76	3	18	5	200	X	X	X	TSK
CANADA	BASIN	BF634	72	43.39	137	9.89	76	3	18	21	200	X	X	X	TSK
CANADA	BASIN	BF635	72	43.39	137	9.88	76	3	19	5	200	X	X	X	TSK
CANADA	BASIN	BF636	72	43.39	137	9.90	76	3	19	21	200	X	X	X	TSK
CANADA	BASIN	BF637	72	43.38	137	10.11	76	3	20	5	200	X	X	X	TSK
CANADA	BASIN	BF638	72	43.38	137	9.89	76	3	20	21	200	X	X	X	TSK
CANADA	BASIN	BF639	72	43.39	137	9.77	76	3	21	5	200	X	X	X	TSK
CANADA	BASIN	BF640	72	43.38	137	9.90	76	3	21	20	200	X	X	X	TSK
CANADA	BASIN	BF641	72	43.05	137	9.37	76	3	22	5	200	X	X	X	TSK
CANADA	BASIN	BF642	72	43.04	137	9.43	76	3	22	21	200	X	X	X	TSK
CANADA	BASIN	BF643	72	43.03	137	9.48	76	3	23	5	200	X	X	X	TSK
CANADA	BASIN	BF644	72	43.02	137	9.45	76	3	23	21	200	X	X	X	TSK
CANADA	BASIN	BF645	72	42.99	137	9.33	76	3	24	5	200	X	X	X	TSK
CANADA	BASIN	BF646	72	43.01	137	9.38	76	3	24	21	200	X	X	X	TSK
CANADA	BASIN	BF647	72	43.03	137	9.48	76	3	25	5	200	X	X	X	TSK
CANADA	BASIN	BF648	72	43.03	137	9.26	76	3	25	21	200	X	X	X	TSK
CANADA	BASIN	BF649	72	43.03	137	9.32	76	3	26	5	200	X	X	X	TSK
CANADA	BASIN	BF650	72	43.03	137	9.26	76	3	26	21	200	X	X	X	TSK
CANADA	BASIN	BF651	72	43.05	137	9.30	76	3	27	5	200	X	X	X	TSK
CANADA	BASIN	BF652	72	43.01	137	9.27	76	3	27	21	200	X	X	X	TSK
CANADA	BASIN	BF653	72	43.05	137	9.31	76	3	28	5	200	X	X	X	TSK
CANADA	BASIN	BF654	72	43.03	137	9.34	76	3	28	21	200	X	X	X	TSK
CANADA	BASIN	BF655	72	43.05	137	9.37	76	3	29	5	200	X	X	X	TSK
CANADA	BASIN	BF656	72	43.05	137	9.42	76	3	29	21	200	X	X	X	TSK
CANADA	BASIN	BF657	72	43.03	137	9.23	76	3	30	5	200	X	X	X	TSK
CANADA	BASIN	BF658	72	43.03	137	9.23	76	3	30	21	200	X	X	X	TSK
CANADA	BASIN	BF659	72	43.04	137	9.31	76	3	31	5	200	X	X	X	TSK
CANADA	BASIN	BF660	72	43.06	137	9.33	76	3	31	21	200	X	X	X	TSK
CANADA	BASIN	BF661	72	43.03	137	9.15	76	4	1	5	200	X	X	X	TSK
CANADA	BASIN	BF662	72	43.03	137	9.27	76	4	1	21	200	X	X	X	TSK
CANADA	BASIN	BF663	72	43.05	137	9.25	76	4	2	5	200	X	X	X	TSK

CANADA BASIN	BF664	72	43.03	137	9.22	76	4	2	21	200	X	X	X	TSK
CANADA BASIN	BF665	72	43.04	137	9.21	76	4	3	5	200	X	X	X	TSK
CANADA BASIN	BF666	72	43.05	137	9.32	76	4	3	21	200	X	X	X	TSK
CANADA BASIN	BF667	72	43.02	137	9.30	76	4	4	5	200	X	X	X	TSK
CANADA BASIN	BF668	72	43.04	137	9.57	76	4	4	21	200	X	X	X	TSK
CANADA BASIN	BF669	72	43.04	137	9.31	76	4	5	5	200	X	X	X	TSK
CANADA BASIN	BF670	72	43.05	137	9.39	76	4	5	21	200	X	X	X	TSK
CANADA BASIN	BF671	72	43.05	137	9.28	76	4	6	5	200	X	X	X	TSK
CANADA BASIN	BF672	72	43.06	137	9.35	76	4	6	21	200	X	X	X	TSK
CANADA BASIN	BF673	72	43.09	137	9.20	76	4	7	5	200	X	X	X	TSK
CANADA BASIN	BF674	72	43.05	137	9.31	76	4	7	21	200	X	X	X	TSK
CANADA BASIN	BF675	72	43.05	137	9.40	76	4	8	5	200	X	X	X	TSK
CANADA BASIN	BF676	72	43.05	137	9.38	76	4	8	21	200	X	X	X	TSK
CANADA BASIN	BF677	72	44.10	137	10.86	76	4	9	7	190	X	X	X	TSK
CANADA BASIN	BF678	72	47.54	137	15.70	76	4	9	21	190	X	X	X	TSK
CANADA BASIN	BF679	72	47.76	137	17.08	76	4	10	5	200	X	X	X	TSK
CANADA BASIN	BF680	72	46.12	137	19.06	76	4	10	21	190	X	X	X	TSK
CANADA BASIN	BF681	72	45.40	137	18.09	76	4	11	5	200	X	X	X	TSK
CANADA BASIN	BF682	72	46.29	137	23.86	76	4	12		190	X	X	X	TSK
CANADA BASIN	BF683	72	46.86	137	28.27	76	4	12	5	190	X	X	X	TSK
CANADA BASIN	BF684	72	46.86	137	31.54	76	4	12	21	200	X	X	X	TSK
CANADA BASIN	BF685	72	46.47	137	30.28	76	4	13	5	200	X	X	X	TSK
CANADA BASIN	BF686	72	46.77	137	31.17	76	4	13	21	200	X	X	X	TSK
CANADA BASIN	BF687	72	46.99	137	31.70	76	4	14	5	200	X	X	X	TSK
CANADA BASIN	BF688	72	46.88	137	28.85	76	4	14	21	190	X	X	X	TSK
CANADA BASIN	BF689	72	46.27	137	22.20	76	4	15	7	190	X	X	X	TSK
CANADA BASIN	BF690	72	46.65	137	17.23	76	4	15	20	190	X	X	X	TSK
CANADA BASIN	BF691	72	47.00	137	14.03	76	4	16	5	200	X	X	X	TSK
CANADA BASIN	BF692	72	47.27	137	14.52	76	4	16	21	200	X	X	X	TSK
CANADA BASIN	BF693	72	47.40	137	15.89	76	4	17	5	200	X	X	X	TSK
CANADA BASIN	BF694	72	47.12	137	16.53	76	4	17	21	200	X	X	X	TSK
CANADA BASIN	BF695	72	47.12	137	17.19	76	4	18	5	200	X	X	X	TSK
CANADA BASIN	BF696	72	47.33	137	20.18	76	4	18	21	190	X	X	X	TSK
CANADA BASIN	BF697	72	47.20	137	23.88	76	4	19	5	190	X	X	X	TSK
CANADA BASIN	BF698	72	46.49	137	26.26	76	4	19	21	200	X	X	X	TSK
CANADA BASIN	BF699	72	46.18	137	26.18	76	4	20	5	200	X	X	X	TSK
CANADA BASIN	BF700	72	45.92	137	25.36	76	4	20	21	200	X	X	X	TSK
CANADA BASIN	SB 1	76	15.19	146	27.45	75	5	4	6	200	X	X	X	TSK
CANADA BASIN	SB 2	76	15.15	146	34.18	75	5	4	18	200	X	X	X	TSK
CANADA BASIN	SB 3	76	15.39	146	47.83	75	5	5	7	200	X	X	X	TSK
CANADA BASIN	SB 4	76	15.55	146	59.21	75	5	5	17	200	X	X	X	TSK
CANADA BASIN	SB 5	76	16.51	147	14.78	75	5	6	5	200	X	X	X	TSK
CANADA BASIN	SB 6	76	17.12	147	26.60	75	5	6	17	200	X	X	X	TSK
CANADA BASIN	SB 7	76	17.92	147	33.75	75	5	7	6	200	X	X	X	TSK
CANADA BASIN	SB 8	76	18.13	147	35.52	75	5	7	17	200	X	X	X	TSK
CANADA BASIN	SB 9	76	18.10	147	37.99	75	5	8	17	200	X	X	X	TSK
CANADA BASIN	SB 10	76	18.81	147	39.04	75	5	9	5	200	X	X	X	TSK
CANADA BASIN	SB 11	76	19.50	147	36.49	75	5	10	5	200	X	X	X	TSK
CANADA BASIN	SB 12	76	18.53	147	33.91	75	5	10	18	200	X	X	X	TSK
CANADA BASIN	SB 13	76	17.38	147	31.18	75	5	11	5	200	X	X	X	TSK
CANADA BASIN	SB 14	76	16.67	147	30.37	75	5	11	18	198	X	X	X	TSK
CANADA BASIN	SB 15	76	15.61	147	34.07	75	5	12	5	196	X	X	X	TSK
CANADA BASIN	SB 16	76	14.20	147	36.60	75	5	12	18	196	X	X	X	TSK
CANADA BASIN	SB 17	76	12.35	147	41.52	75	5	13	5	198	X	X	X	TSK
CANADA BASIN	SB 18	76	10.69	147	43.61	75	5	13	18	196	X	X	X	TSK
CANADA BASIN	SB 19	76	9.23	147	40.13	75	5	14	5	200	X	X	X	TSK
CANADA BASIN	SB 20	76	7.65	147	34.11	75	5	14	18	200	X	X	X	TSK
CANADA BASIN	SB 21	76	6.17	147	26.18	75	5	15	5	186	X	X	X	TSK
CANADA BASIN	SB 22	76	4.96	147	23.33	75	5	16	18	198	X	X	X	TSK
CANADA BASIN	SB 23	76	7.41	147	27.66	75	5	17	6	190	X	X	X	TSK
CANADA BASIN	SB 24	76	9.68	147	51.69	75	5	18	5	198	X	X	X	TSK
CANADA BASIN	SB 25	76	9.55	148	6.19	75	5	18	21	194	X	X	X	TSK
CANADA BASIN	SB 26	76	9.11	148	17.51	75	5	19	5	198	X	X	X	TSK
CANADA BASIN	SB 27	76	7.78	148	22.74	75	5	19	20	198	X	X	X	TSK
CANADA BASIN	SB 28	76	7.02	148	23.11	75	5	20	5	200	X	X	X	TSK
CANADA BASIN	SB 29	76	6.32	148	21.53	75	5	20	20	200	X	X	X	TSK
CANADA BASIN	SB 30	76	6.25	148	19.69	75	5	21	5	200	X	X	X	TSK
CANADA BASIN	SB 31	76	6.88	148	17.91	75	5	21	21	200	X	X	X	TSK
CANADA BASIN	SB 32	76	7.88	148	15.43	75	5	22	5	200	X	X	X	TSK
CANADA BASIN	SB 33	76	8.89	148	11.15	75	5	22	20	200	X	X	X	TSK
CANADA BASIN	SB 34	76	9.23	148	7.20	75	5	23	5	200	X	X	X	TSK
CANADA BASIN	SB 35	76	9.27	148	2.65	75	5	23	20	200	X	X	X	TSK
CANADA BASIN	SB 36	76	8.87	147	59.87	75	5	24	5	200	X	X	X	TSK
CANADA BASIN	SB 37	76	8.72	147	58.69	75	5	24	20	200	X	X	X	TSK
CANADA BASIN	SB 38	76	9.20	147	58.03	75	5	25	5	200	X	X	X	TSK
CANADA BASIN	SB 39	76	10.53	148	1.86	75	5	25	20	198	X	X	X	TSK
CANADA BASIN	SB 40	76	10.94	148	7.37	75	5	26	5	198	X	X	X	TSK
CANADA BASIN	SB 41	76	10.07	148	18.57	75	5	26	20	198	X	X	X	TSK
CANADA BASIN	SB 42	76	9.93	148	26.71	75	5	27	5	198	X	X	X	TSK
CANADA BASIN	SB 43	76	11.06	148	41.16	75	5	27	20	196	X	X	X	TSK
CANADA BASIN	SB 44	76	12.19	148	51.39	75	5	28	5	194	X	X	X	TSK
CANADA BASIN	SB 45	76	14.06	149	5.30	75	5	28	20	194	X	X	X	TSK
CANADA BASIN	SB 46	76	15.40	149	12.95	75	5	29	5	200	X	X	X	TSK

CANADA BASIN	SB 47	76	17.34	149	23.51	75	5	29	20	197	X	X	X	TSK
CANADA BASIN	SB 48	76	18.71	149	31.32	75	5	30	5	173	X	X	X	TSK
CANADA BASIN	SB 49	76	20.95	149	39.58	75	5	30	20	150	X	X	X	TSK
CANADA BASIN	SB 50	76	21.99	149	43.31	75	5	31	5	162	X	X	X	TSK
CANADA BASIN	SB 51	76	22.73	149	49.05	75	5	31	20	159	X	X	X	TSK
CANADA BASIN	SB 52	76	23.17	149	53.50	75	6	1	5	183	X	X	X	TSK
CANADA BASIN	SB 53	76	23.66	150	0.79	75	6	1	22	180	X	X	X	TSK
CANADA BASIN	SB 54	76	23.85	150	4.79	75	6	2	5	193	X	X	X	TSK
CANADA BASIN	SB 55	76	24.29	150	10.95	75	6	2	20	198	X	X	X	TSK
CANADA BASIN	SB 56	76	24.58	150	14.52	75	6	3	5	200	X	X	X	TSK
CANADA BASIN	SB 57	76	25.57	150	22.44	75	6	3	20	199	X	X	X	TSK
CANADA BASIN	SB 58	76	26.12	150	29.02	75	6	4	5	198	X	X	X	TSK
CANADA BASIN	SB 59	76	26.37	150	41.40	75	6	4	20	199	X	X	X	TSK
CANADA BASIN	SB 60	76	26.20	150	49.03	75	6	5	6	199	X	X	X	TSK
CANADA BASIN	SB 61	76	25.83	150	56.37	75	6	5	20	198	X	X	X	TSK
CANADA BASIN	SB 62	76	25.56	151	0.76	75	6	6	5	200	X	X	X	TSK
CANADA BASIN	SB 63	76	24.82	151	6.63	75	6	6	20	199	X	X	X	TSK
CANADA BASIN	SB 64	76	24.30	151	11.02	75	6	7	5	199	X	X	X	TSK
CANADA BASIN	SB 65	76	23.45	151	14.87	75	6	7	20	200	X	X	X	TSK
CANADA BASIN	SB 66	76	22.91	151	17.06	75	6	8	5	200	X	X	X	TSK
CANADA BASIN	SB 67	76	21.24	151	19.30	75	6	8	21	198	X	X	X	TSK
CANADA BASIN	SB 68	76	20.40	151	18.68	75	6	9	5	200	X	X	X	TSK
CANADA BASIN	SB 69	76	19.40	151	18.01	75	6	9	21	200	X	X	X	TSK
CANADA BASIN	SB 70	76	19.15	151	17.91	75	6	10	5	200	X	X	X	TSK
CANADA BASIN	SB 71	76	18.55	151	14.01	75	6	10	22	200	X	X	X	TSK
CANADA BASIN	SB 72	76	18.36	151	11.44	75	6	11	5	200	X	X	X	TSK
CANADA BASIN	SB 73	76	18.42	151	11.36	75	6	11	20	200	X	X	X	TSK
CANADA BASIN	SB 74	76	18.62	151	13.66	75	6	12	5	200	X	X	X	TSK
CANADA BASIN	SB 75	76	19.12	151	15.10	75	6	12	21	200	X	X	X	TSK
CANADA BASIN	SB 76	76	18.86	151	18.84	75	6	13	5	200	X	X	X	TSK
CANADA BASIN	SB 77	76	18.77	151	23.65	75	6	13	20	200	X	X	X	TSK
CANADA BASIN	SB 78	76	19.14	151	25.17	75	6	14	5	200	X	X	X	TSK
CANADA BASIN	SB 79	76	19.84	151	29.78	75	6	14	20	198	X	X	X	TSK
CANADA BASIN	SB 80	76	20.57	151	31.26	75	6	15	5	198	X	X	X	TSK
CANADA BASIN	SB 81	76	20.92	151	35.17	75	6	15	20	200	X	X	X	TSK
CANADA BASIN	SB 82	76	20.84	151	36.94	75	6	16	5	199	X	X	X	TSK
CANADA BASIN	SB 83	76	21.43	151	40.20	75	6	16	21	199	X	X	X	TSK
CANADA BASIN	SB 84	76	22.89	151	47.02	75	6	17	5	198	X	X	X	TSK
CANADA BASIN	SB 85	76	24.64	152	2.04	75	6	17	20	198	X	X	X	TSK
CANADA BASIN	SB 86	76	24.02	152	8.16	75	6	18	5	199	X	X	X	TSK
CANADA BASIN	SB 87	76	21.61	152	14.88	75	6	18	20	199	X	X	X	TSK
CANADA BASIN	SB 88	76	20.48	152	16.65	75	6	19	6	198	X	X	X	TSK
CANADA BASIN	SB 89	76	20.71	152	21.40	75	6	19	20	199	X	X	X	TSK
CANADA BASIN	SB 90	76	21.48	152	25.57	75	6	20	6	200	X	X	X	TSK
CANADA BASIN	SB 91	76	22.57	152	29.91	75	6	20	21	199	X	X	X	TSK
CANADA BASIN	SB 92	76	23.80	152	31.50	75	6	21	5	199	X	X	X	TSK
CANADA BASIN	SB 93	76	26.42	152	36.69	75	6	21	20	197	X	X	X	TSK
CANADA BASIN	SB 94	76	28.59	152	40.52	75	6	22	5	199	X	X	X	TSK
CANADA BASIN	SB 95	76	29.89	152	37.25	75	6	22	21	199	X	X	X	TSK
CANADA BASIN	SB 96	76	30.93	152	38.09	75	6	23	6	199	X	X	X	TSK
CANADA BASIN	SB 97	76	31.77	152	48.84	75	6	23	20	199	X	X	X	TSK
CANADA BASIN	SB 98	76	31.85	152	53.39	75	6	24	6	200	X	X	X	TSK
CANADA BASIN	SB 99	76	31.57	152	53.60	75	6	24	21	199	X	X	X	TSK
CANADA BASIN	SB100	76	31.41	152	53.02	75	6	25	6	199	X	X	X	TSK
CANADA BASIN	SB101	76	31.32	152	45.76	75	6	25	20	198	X	X	X	TSK
CANADA BASIN	SB102	76	31.62	152	38.41	75	6	26	5	198	X	X	X	TSK
CANADA BASIN	SB103	76	32.14	152	37.45	75	6	26	20	200	X	X	X	TSK
CANADA BASIN	SB104	76	33.43	152	41.90	75	6	27	5	198	X	X	X	TSK
CANADA BASIN	SB105	76	34.79	152	34.93	75	6	27	21	199	X	X	X	TSK
CANADA BASIN	SB106	76	35.66	152	33.93	75	6	28	6	198	X	X	X	TSK
CANADA BASIN	SB107	76	35.60	152	23.69	75	6	28	21	197	X	X	X	TSK
CANADA BASIN	SB108	76	34.31	152	15.65	75	6	29	5	200	X	X	X	TSK
CANADA BASIN	SB109	76	36.41	152	7.05	75	6	29	20	196	X	X	X	TSK
CANADA BASIN	SB110	76	37.59	152	1.71	75	6	30	5	197	X	X	X	TSK
CANADA BASIN	SB111	76	40.46	152	3.92	75	6	30	20	198	X	X	X	TSK
CANADA BASIN	SB112	76	40.38	151	57.53	75	7	1	5	196	X	X	X	TSK
CANADA BASIN	SB113	76	39.62	151	49.93	75	7	1	20	199	X	X	X	TSK
CANADA BASIN	SB114	76	39.66	151	48.17	75	7	2	5	198	X	X	X	TSK
CANADA BASIN	SB115	76	39.93	151	45.35	75	7	2	21	191	X	X	X	TSK
CANADA BASIN	SB116	76	40.57	151	35.98	75	7	3	5	196	X	X	X	TSK
CANADA BASIN	SB117	76	41.72	151	14.33	75	7	3	21	192	X	X	X	TSK
CANADA BASIN	SB118	76	41.53	151	6.35	75	7	4	5	196	X	X	X	TSK
CANADA BASIN	SB119	76	37.56	150	46.44	75	7	5	5	197	X	X	X	TSK
CANADA BASIN	SB120	76	33.20	150	33.02	75	7	5	20	183	X	X	X	TSK
CANADA BASIN	SB121	76	31.22	150	19.45	75	7	6	5	180	X	X	X	TSK
CANADA BASIN	SB122	76	32.48	150	10.22	75	7	7	2	176	X	X	X	TSK
CANADA BASIN	SB123	76	30.44	149	36.89	75	7	8	5	198	X	X	X	TSK
CANADA BASIN	SB124	76	30.42	149	36.04	75	7	8	21	200	X	X	X	TSK
CANADA BASIN	SB125	76	31.10	149	31.12	75	7	9	5	199	X	X	X	TSK
CANADA BASIN	SB126	76	34.32	149	22.74	75	7	9	20	199	X	X	X	TSK
CANADA BASIN	SB127	76	32.91	149	4.32	75	7	10	5	180	X	X	X	TSK
CANADA BASIN	SB128	76	29.44	148	45.37	75	7	11	5	198	X	X	X	TSK
CANADA BASIN	SB129	76	29.26	148	43.41	75	7	11	20	199	X	X	X	TSK

CANADA	BASIN	SB130	76	30.31	148	41.83	75	7	12	6	198	X	X	X	TSK
CANADA	BASIN	SB131	76	32.96	148	47.83	75	7	13	5	199	X	X	X	TSK
CANADA	BASIN	SB132	76	34.37	148	50.38	75	7	14	5	200	X	X	X	TSK
CANADA	BASIN	SB133	76	33.61	148	52.51	75	7	15	5	199	X	X	X	TSK
CANADA	BASIN	SB134	76	32.77	148	56.82	75	7	15	22	200	X	X	X	TSK
CANADA	BASIN	SB135	76	31.90	148	55.75	75	7	16	5	198	X	X	X	TSK
CANADA	BASIN	SB136	76	28.07	148	52.12	75	7	16	22	200	X	X	X	TSK
CANADA	BASIN	SB137	76	27.08	148	49.97	75	7	17	5	198	X	X	X	TSK
CANADA	BASIN	SB138	76	25.93	148	44.52	75	7	17	22	200	X	X	X	TSK
CANADA	BASIN	SB139	76	25.36	148	42.56	75	7	18	5	198	X	X	X	TSK
CANADA	BASIN	SB140	76	22.44	148	42.65	75	7	18	22	198	X	X	X	TSK
CANADA	BASIN	SB141	76	20.80	148	43.95	75	7	19	6	198	X	X	X	TSK
CANADA	BASIN	SB142	76	18.51	148	47.06	75	7	19	23	200	X	X	X	TSK
CANADA	BASIN	SB143	76	17.98	148	47.35	75	7	20	5	200	X	X	X	TSK
CANADA	BASIN	SB144	76	13.69	148	45.53	75	7	20	22	200	X	X	X	TSK
CANADA	BASIN	SB145	75	39.51	149	0.31	75	7	30	2	*	X	X	X	TSK
CANADA	BASIN	SB146	75	38.86	149	2.99	75	7	30	5	195	X	X	X	TSK
CANADA	BASIN	SB147	75	32.43	148	42.49	75	7	31	6	189	X	X	X	TSK
CANADA	BASIN	SB148	75	29.37	148	28.13	75	7	31	23	200	X	X	X	TSK
CANADA	BASIN	SB149	75	28.17	148	23.10	75	8	1	5	200	X	X	X	TSK
CANADA	BASIN	SB150	75	24.56	148	12.48	75	8	2	6	*	X	X	X	TSK
CANADA	BASIN	SB151	75	22.64	148	4.71	75	8	3	5	200	X	X	X	TSK
CANADA	BASIN	SB152	75	22.03	147	54.61	75	8	3	22	197	X	X	X	TSK
CANADA	BASIN	SB153	75	22.26	147	49.88	75	8	4	5	197	X	X	X	TSK
CANADA	BASIN	SB154	75	25.03	147	32.33	75	8	4	22	193	X	X	X	TSK
CANADA	BASIN	SB155	75	26.19	147	19.61	75	8	5	5	197	X	X	X	TSK
CANADA	BASIN	SB156	75	26.18	147	18.59	75	8	5	6	*	X	X	X	TSK
CANADA	BASIN	SB157	75	23.99	147	11.26	75	8	5	22	200	X	X	X	TSK
CANADA	BASIN	SB158	75	23.26	147	7.54	75	8	6	6	200	X	X	X	TSK
CANADA	BASIN	SB159	75	21.50	147	2.38	75	8	6	22	197	X	X	X	TSK
CANADA	BASIN	SB160	75	21.24	147	0.49	75	8	7	5	200	X	X	X	TSK
CANADA	BASIN	SB161	75	20.56	146	58.12	75	8	7	22	200	X	X	X	TSK
CANADA	BASIN	SB162	75	21.07	146	54.21	75	8	8	5	197	X	X	X	TSK
CANADA	BASIN	SB163	75	21.99	146	36.34	75	8	8	22	169	X	X	X	TSK
CANADA	BASIN	SB164	75	21.97	146	34.47	75	8	8	23	*	X	X	X	TSK
CANADA	BASIN	SB165	75	19.14	146	23.16	75	8	9	5	193	X	X	X	TSK
CANADA	BASIN	SB166	75	18.82	146	23.04	75	8	9	6	*	X	X	X	TSK
CANADA	BASIN	SB167	75	18.55	146	22.82	75	8	9	7	*	X	X	X	TSK
CANADA	BASIN	SB168	75	15.82	146	2.82	75	8	9	22	198	X	X	X	TSK
CANADA	BASIN	SB169	75	14.42	145	59.78	75	8	10	2	100	X	X	X	TSK
CANADA	BASIN	SB170	75	11.81	145	56.16	75	8	10	5	157	X	X	X	TSK
CANADA	BASIN	SB171	75	9.39	145	54.84	75	8	10	14	100	X	X	X	TSK
CANADA	BASIN	SB172	75	6.33	145	51.27	75	8	10	22	197	X	X	X	TSK
CANADA	BASIN	SB173	75	6.04	145	50.03	75	8	11	2	100	X	X	X	TSK
CANADA	BASIN	SB174	75	4.92	145	46.35	75	8	11	5	172	X	X	X	TSK
CANADA	BASIN	SB175	75	2.76	145	42.93	75	8	11	14	100	X	X	X	TSK
CANADA	BASIN	SB176	75	0.45	145	33.83	75	8	11	22	196	X	X	X	TSK
CANADA	BASIN	SB177	75	0.56	145	30.94	75	8	12	2	100	X	X	X	TSK
CANADA	BASIN	SB178	75	0.25	145	25.22	75	8	12	5	186	X	X	X	TSK
CANADA	BASIN	SB179	75	0.03	145	23.74	75	8	12	6	100	X	X	X	TSK
CANADA	BASIN	SB180	74	58.84	145	7.96	75	8	12	22	200	X	X	X	TSK
CANADA	BASIN	SB181	74	58.84	145	7.63	75	8	12	23	100	X	X	X	TSK
CANADA	BASIN	SB182	75	0.34	145	4.30	75	8	13	5	193	X	X	X	TSK
CANADA	BASIN	SB183	75	4.01	144	57.47	75	8	13	14	100	X	X	X	TSK
CANADA	BASIN	SB184	75	3.26	144	45.18	75	8	13	23	196	X	X	X	TSK
CANADA	BASIN	SB185	75	1.79	144	31.54	75	8	14	5	180	X	X	X	TSK
CANADA	BASIN	SB186	75	1.36	144	30.93	75	8	14	6	100	X	X	X	TSK
CANADA	BASIN	SB187	75	0.09	144	14.43	75	8	15	5	200	X	X	X	TSK
CANADA	BASIN	SB188	75	0.06	144	14.39	75	8	15	6	*	X	X	X	TSK
CANADA	BASIN	SB189	75	2.88	144	13.75	75	8	15	22	196	X	X	X	TSK
CANADA	BASIN	SB190	75	3.15	144	13.55	75	8	15	23	*	X	X	X	TSK
CANADA	BASIN	SB191	75	2.70	144	5.90	75	8	16	22	192	X	X	X	TSK
CANADA	BASIN	SB192	75	2.37	144	6.39	75	8	16	23	100	X	X	X	TSK
CANADA	BASIN	SB193	75	1.17	144	8.64	75	8	17	5	196	X	X	X	TSK
CANADA	BASIN	SB194	75	1.04	144	8.53	75	8	17	6	*	X	X	X	TSK
CANADA	BASIN	SB195	75	0.10	144	9.69	75	8	17	22	200	X	X	X	TSK
CANADA	BASIN	SB196	75	0.02	144	9.86	75	8	18	5	200	X	X	X	TSK
CANADA	BASIN	SB197	75	0.08	144	18.41	75	8	19	5	197	X	X	X	TSK
CANADA	BASIN	SB198	75	1.07	144	26.50	75	8	19	22	196	X	X	X	TSK
CANADA	BASIN	SB199	75	1.99	144	34.17	75	8	20	5	195	X	X	X	TSK
CANADA	BASIN	SB200	75	3.23	144	49.44	75	8	20	22	200	X	X	X	TSK
CANADA	BASIN	SB201	75	3.43	144	54.08	75	8	21	5	200	X	X	X	TSK
CANADA	BASIN	SB202	75	3.20	144	55.76	75	8	21	22	200	X	X	X	TSK
CANADA	BASIN	SB203	75	2.79	144	54.95	75	8	22	5	200	X	X	X	TSK
CANADA	BASIN	SB204	75	0.96	144	47.98	75	8	22	22	197	X	X	X	TSK
CANADA	BASIN	SB205	74	59.40	144	44.95	75	8	23	5	197	X	X	X	TSK
CANADA	BASIN	SB206	74	57.27	144	41.66	75	8	23	22	187	X	X	X	TSK
CANADA	BASIN	SB207	74	57.23	144	41.59	75	8	23	23	100	X	X	X	TSK
CANADA	BASIN	SB208	74	56.89	144	40.16	75	8	24	5	187	X	X	X	TSK
CANADA	BASIN	SB209	74	57.01	144	37.04	75	8	24	14	100	X	X	X	TSK
CANADA	BASIN	SB210	74	57.72	144	27.62	75	8	24	22	196	X	X	X	TSK
CANADA	BASIN	SB211	74	57.32	144	18.60	75	8	25	6	197	X	X	X	TSK
CANADA	BASIN	SB212	74	57.67	144	7.24	75	8	25	22	198	X	X	X	TSK

CANADA	BASIN	SB213	74	59.03	144	4.67	75	8	26	5	196	X	X	X	TSK
CANADA	BASIN	SB214	75	2.54	144	1.78	75	8	26	22	197	X	X	X	TSK
CANADA	BASIN	SB215	75	1.83	143	56.46	75	8	27	5	189	X	X	X	TSK
CANADA	BASIN	SB216	74	55.52	143	38.46	75	8	27	22	170	X	X	X	TSK
CANADA	BASIN	SB217	74	53.64	143	29.29	75	8	28	5	188	X	X	X	TSK
CANADA	BASIN	SB218	74	50.24	143	9.01	75	8	28	22	197	X	X	X	TSK
CANADA	BASIN	SB219	74	50.97	143	8.36	75	8	29	5	197	X	X	X	TSK
CANADA	BASIN	SB220	74	47.36	143	1.81	75	8	29	22	176	X	X	X	TSK
CANADA	BASIN	SB221	74	44.48	143	3.81	75	8	30	5	189	X	X	X	TSK
CANADA	BASIN	SB222	74	37.90	142	55.48	75	8	31	22	161	X	X	X	TSK
CANADA	BASIN	SB223	74	36.66	142	48.34	75	8	32	2	100	X	X	X	TSK
CANADA	BASIN	SB224	74	34.86	142	47.81	75	9	1	5	194	X	X	X	TSK
CANADA	BASIN	SB225	74	34.59	142	48.14	75	9	1	6	100	X	X	X	TSK
CANADA	BASIN	SB226	74	30.94	142	36.50	75	9	1	22	196	X	X	X	TSK
CANADA	BASIN	SB227	74	30.04	142	33.95	75	9	2	2	96	X	X	X	TSK
CANADA	BASIN	SB228	74	28.71	142	34.69	75	9	2	5	188	X	X	X	TSK
CANADA	BASIN	SB229	74	28.49	142	35.74	75	9	2	6	100	X	X	X	TSK
CANADA	BASIN	SB230	74	27.57	142	37.93	75	9	2	22	200	X	X	X	TSK
CANADA	BASIN	SB231	74	27.69	142	37.49	75	9	3		*	X	X	X	TSK
CANADA	BASIN	SB232	74	27.13	142	36.01	75	9	3	5	196	X	X	X	TSK
CANADA	BASIN	SB233	74	27.05	142	36.79	75	9	3	6	*	X	X	X	TSK
CANADA	BASIN	SB234	74	28.60	142	41.58	75	9	3	23	193	X	X	X	TSK
CANADA	BASIN	SB235	74	29.00	142	38.64	75	9	4	5	196	X	X	X	TSK
CANADA	BASIN	SB236	74	28.91	142	40.58	75	9	4	14	100	X	X	X	TSK
CANADA	BASIN	SB237	74	27.53	142	41.77	75	9	4	22	196	X	X	X	TSK
CANADA	BASIN	SB238	74	27.38	142	41.04	75	9	5	2	99	X	X	X	TSK
CANADA	BASIN	SB239	74	26.54	142	39.66	75	9	5	5	188	X	X	X	TSK
CANADA	BASIN	SB240	74	23.29	142	47.74	75	9	5	22	194	X	X	X	TSK
CANADA	BASIN	SB241	74	23.72	142	51.67	75	9	6	5	196	X	X	X	TSK
CANADA	BASIN	SB242	74	23.62	142	51.90	75	9	6	6	*	X	X	X	TSK
CANADA	BASIN	SB243	74	22.08	143	3.43	75	9	6	22	184	X	X	X	TSK
CANADA	BASIN	SB244	74	22.65	143	7.97	75	9	7	5	200	X	X	X	TSK
CANADA	BASIN	SB245	74	20.54	143	4.30	75	9	7	22	197	X	X	X	TSK
CANADA	BASIN	SB246	74	20.25	142	58.63	75	9	8	5	195	X	X	X	TSK
CANADA	BASIN	SB247	74	20.65	142	36.29	75	9	8	22	194	X	X	X	TSK
CANADA	BASIN	SB248	74	21.00	142	28.39	75	9	9	5	186	X	X	X	TSK
CANADA	BASIN	SB249	74	21.04	142	27.02	75	9	9	6	*	X	X	X	TSK
CANADA	BASIN	SB250	74	20.21	142	4.95	75	9	9	22	196	X	X	X	TSK
CANADA	BASIN	SB251	74	19.53	141	58.43	75	9	10	5	197	X	X	X	TSK
CANADA	BASIN	SB252	74	18.34	141	43.63	75	9	10	22	196	X	X	X	TSK
CANADA	BASIN	SB253	74	19.28	141	37.71	75	9	11	5	196	X	X	X	TSK
CANADA	BASIN	SB254	74	19.66	141	19.88	75	9	11	22	194	X	X	X	TSK
CANADA	BASIN	SB255	74	19.20	141	14.52	75	9	12	5	200	X	X	X	TSK
CANADA	BASIN	SB256	74	21.02	140	52.68	75	9	12	22	183	X	X	X	TSK
CANADA	BASIN	SB257	74	19.95	140	45.52	75	9	13	5	199	X	X	X	TSK
CANADA	BASIN	SB258	74	18.63	140	42.57	75	9	13	22	200	X	X	X	TSK
CANADA	BASIN	SB259	74	18.81	140	40.02	75	9	14	6	198	X	X	X	TSK
CANADA	BASIN	SB260	74	16.77	140	38.34	75	9	14	22	197	X	X	X	TSK
CANADA	BASIN	SB261	74	16.08	140	41.70	75	9	15	5	192	X	X	X	TSK
CANADA	BASIN	SB262	74	16.63	140	52.55	75	9	15	22	196	X	X	X	TSK
CANADA	BASIN	SB263	74	17.56	140	54.90	75	9	16	5	197	X	X	X	TSK
CANADA	BASIN	SB264	74	19.10	140	57.87	75	9	16	22	197	X	X	X	TSK
CANADA	BASIN	SB265	74	19.77	140	58.52	75	9	17	6	196	X	X	X	TSK
CANADA	BASIN	SB266	74	24.27	141	0.75	75	9	17	22	168	X	X	X	TSK
CANADA	BASIN	SB267	74	24.57	140	52.93	75	9	18	5	197	X	X	X	TSK
CANADA	BASIN	SB268	74	22.55	140	50.74	75	9	18	22	197	X	X	X	TSK
CANADA	BASIN	SB269	74	21.34	140	53.79	75	9	19	5	196	X	X	X	TSK
CANADA	BASIN	SB270	74	19.42	141	4.66	75	9	19	22	197	X	X	X	TSK
CANADA	BASIN	SB271	74	18.77	141	7.55	75	9	20	5	198	X	X	X	TSK
CANADA	BASIN	SB272	74	17.91	140	58.25	75	9	20	22	195	X	X	X	TSK
CANADA	BASIN	SB273	74	20.07	140	47.90	75	9	21	5	162	X	X	X	TSK
CANADA	BASIN	SB274	74	18.34	140	17.43	75	9	21	22	165	X	X	X	TSK
CANADA	BASIN	SB275	74	17.15	140	22.55	75	9	22	5	194	X	X	X	TSK
CANADA	BASIN	SB276	74	17.03	140	26.51	75	9	22	22	195	X	X	X	TSK
CANADA	BASIN	SB277	74	15.77	140	38.37	75	9	23	5	193	X	X	X	TSK
CANADA	BASIN	SB278	74	13.63	140	39.65	75	9	23	23	194	X	X	X	TSK
CANADA	BASIN	SB279	74	11.50	140	39.85	75	9	24	5	200	X	X	X	TSK
CANADA	BASIN	SB280	74	7.91	140	19.39	75	9	24	23	193	X	X	X	TSK
CANADA	BASIN	SB281	74	5.75	140	14.06	75	9	25	5	198	X	X	X	TSK
CANADA	BASIN	SB282	74	2.22	140	18.06	75	9	25	22	190	X	X	X	TSK
CANADA	BASIN	SB283	73	59.35	140	19.44	75	9	27	5	200	X	X	X	TSK
CANADA	BASIN	SB284	73	59.03	140	17.06	75	9	27	22	200	X	X	X	TSK
CANADA	BASIN	SB285	73	58.76	140	16.79	75	9	28	5	200	X	X	X	TSK
CANADA	BASIN	SB286	73	58.18	140	16.19	75	9	28	23	198	X	X	X	TSK
CANADA	BASIN	SB287	73	58.05	140	16.24	75	9	29	5	200	X	X	X	TSK
CANADA	BASIN	SB288	73	58.27	140	17.58	75	9	29	22	200	X	X	X	TSK
CANADA	BASIN	SB289	73	58.36	140	19.38	75	9	30	5	200	X	X	X	TSK
CANADA	BASIN	SB290	73	58.85	140	32.64	75	9	30	22	200	X	X	X	TSK
CANADA	BASIN	SB291	73	59.12	140	39.32	75	10	1	6	198	X	X	X	TSK
CANADA	BASIN	SB292	74	0.55	141	2.06	75	10	1	22	194	X	X	X	TSK
CANADA	BASIN	SB293	74	1.53	141	8.09	75	10	2	5	200	X	X	X	TSK
CANADA	BASIN	SB294	74	6.16	141	26.43	75	10	3	5	198	X	X	X	TSK
CANADA	BASIN	SB295	74	9.77	141	35.10	75	10	3	23	177	X	X	X	TSK

CANADA	BASIN	SB296	74	11.03	141	38.26	75	10	4	5	198	X	X	X	TSK
CANADA	BASIN	SB297	74	14.92	141	51.50	75	10	5	5	200	X	X	X	TSK
CANADA	BASIN	SB298	74	15.24	141	58.04	75	10	5	23	200	X	X	X	TSK
CANADA	BASIN	SB299	74	15.03	141	59.72	75	10	6	5	200	X	X	X	TSK
CANADA	BASIN	SB300	74	14.57	142	8.57	75	10	7	1	200	X	X	X	TSK
CANADA	BASIN	SB301	74	12.92	142	10.78	75	10	7	22	200	X	X	X	TSK
CANADA	BASIN	SB302	74	12.50	142	10.94	75	10	8	5	200	X	X	X	TSK
CANADA	BASIN	SB303	74	11.23	142	11.32	75	10	8	22	198	X	X	X	TSK
CANADA	BASIN	SB304	74	10.51	142	11.39	75	10	9	5	198	X	X	X	TSK
CANADA	BASIN	SB305	74	8.45	142	10.91	75	10	10	5	200	X	X	X	TSK
CANADA	BASIN	SB306	74	6.70	142	8.90	75	10	11	5	200	X	X	X	TSK
CANADA	BASIN	SB307	74	7.11	141	48.98	75	10	12	5	198	X	X	X	TSK
CANADA	BASIN	SB308	74	7.15	141	39.34	75	10	12	22	198	X	X	X	TSK
CANADA	BASIN	SB309	74	6.71	141	41.06	75	10	13	5	200	X	X	X	TSK
CANADA	BASIN	SB310	74	5.12	141	46.01	75	10	13	22	198	X	X	X	TSK
CANADA	BASIN	SB311	74	4.69	141	48.94	75	10	14	5	198	X	X	X	TSK
CANADA	BASIN	SB312	74	4.35	141	56.93	75	10	14	22	200	X	X	X	TSK
CANADA	BASIN	SB313	74	4.74	142	1.21	75	10	15	5	198	X	X	X	TSK
CANADA	BASIN	SB314	74	6.07	142	17.90	75	10	15	22	198	X	X	X	TSK
CANADA	BASIN	SB315	74	6.53	142	24.59	75	10	16	5	198	X	X	X	TSK
CANADA	BASIN	SB316	74	6.08	142	36.55	75	10	16	22	196	X	X	X	TSK
CANADA	BASIN	SB317	74	5.03	142	37.48	75	10	17	5	190	X	X	X	TSK
CANADA	BASIN	SB318	74	2.53	142	33.58	75	10	18	5	188	X	X	X	TSK
CANADA	BASIN	SB319	74	2.77	142	39.67	75	10	18	22	176	X	X	X	TSK
CANADA	BASIN	SB320	74	3.19	142	44.48	75	10	19	5	176	X	X	X	TSK
CANADA	BASIN	SB321	74	3.85	142	58.54	75	10	19	22	170	X	X	X	TSK
CANADA	BASIN	SB322	74	4.18	143	2.85	75	10	20	5	200	X	X	X	TSK
CANADA	BASIN	SB323	74	4.71	143	7.78	75	10	20	22	198	X	X	X	TSK
CANADA	BASIN	SB324	74	4.86	143	8.88	75	10	21	5	200	X	X	X	TSK
CANADA	BASIN	SB325	74	4.99	143	11.57	75	10	21	22	200	X	X	X	TSK
CANADA	BASIN	SB326	74	4.69	143	12.86	75	10	22	5	200	X	X	X	TSK
CANADA	BASIN	SB327	74	3.38	143	9.32	75	10	22	22	200	X	X	X	TSK
CANADA	BASIN	SB328	74	3.37	143	9.03	75	10	23	5	200	X	X	X	TSK
CANADA	BASIN	SB329	74	7.67	143	28.46	75	10	24	5	200	X	X	X	TSK
CANADA	BASIN	SB330	74	10.79	143	35.27	75	10	24	22	200	X	X	X	TSK
CANADA	BASIN	SB331	74	10.97	143	32.85	75	10	25	5	198	X	X	X	TSK
CANADA	BASIN	SB332	74	9.60	143	22.98	75	10	25	22	194	X	X	X	TSK
CANADA	BASIN	SB333	74	8.00	143	18.48	75	10	26	5	196	X	X	X	TSK
CANADA	BASIN	SB334	74	3.19	142	58.28	75	10	27	5	194	X	X	X	TSK
CANADA	BASIN	SB335	74	0.65	142	53.23	75	10	27	22	200	X	X	X	TSK
CANADA	BASIN	SB336	73	58.65	142	54.86	75	10	28	6	194	X	X	X	TSK
CANADA	BASIN	SB337	73	52.10	143	4.44	75	10	28	22	192	X	X	X	TSK
CANADA	BASIN	SB338	73	49.12	143	7.47	75	10	29	5	194	X	X	X	TSK
CANADA	BASIN	SB339	73	43.13	143	8.16	75	10	29	22	196	X	X	X	TSK
CANADA	BASIN	SB340	73	40.69	143	6.20	75	10	30	5	192	X	X	X	TSK
CANADA	BASIN	SB341	73	35.01	143	4.58	75	10	30	22	198	X	X	X	TSK
CANADA	BASIN	SB342	73	33.14	143	5.09	75	10	31	5	198	X	X	X	TSK
CANADA	BASIN	SB343	73	32.35	143	2.75	75	10	31	22	200	X	X	X	TSK
CANADA	BASIN	SB344	73	32.08	143	0.51	75	11	1	5	200	X	X	X	TSK
CANADA	BASIN	SB345	73	32.02	142	58.32	75	11	1	22	200	X	X	X	TSK
CANADA	BASIN	SB346	73	32.06	142	57.72	75	11	2	5	200	X	X	X	TSK
CANADA	BASIN	SB347	73	32.22	142	57.91	75	11	2	21	200	X	X	X	TSK
CANADA	BASIN	SB348	73	32.41	142	58.15	75	11	3	5	200	X	X	X	TSK
CANADA	BASIN	SB349	73	33.10	143	0.18	75	11	3	22	200	X	X	X	TSK
CANADA	BASIN	SB350	73	33.47	143	0.36	75	11	4	5	200	X	X	X	TSK
CANADA	BASIN	SB351	73	34.80	143	2.30	75	11	4	22	200	X	X	X	TSK
CANADA	BASIN	SB352	73	35.76	143	2.85	75	11	5	5	200	X	X	X	TSK
CANADA	BASIN	SB353	73	36.84	143	0.02	75	11	5	22	200	X	X	X	TSK
CANADA	BASIN	SB354	73	37.20	142	57.40	75	11	6	5	200	X	X	X	TSK
CANADA	BASIN	SB355	73	39.57	142	45.68	75	11	6	22	198	X	X	X	TSK
CANADA	BASIN	SB356	73	40.39	142	41.65	75	11	7	5	198	X	X	X	TSK
CANADA	BASIN	SB357	73	42.23	142	39.63	75	11	8	5	200	X	X	X	TSK
CANADA	BASIN	SB358	73	42.20	142	37.96	75	11	9	5	198	X	X	X	TSK
CANADA	BASIN	SB359	73	42.67	142	32.67	75	11	10	5	200	X	X	X	TSK
CANADA	BASIN	SB360	73	43.15	142	32.46	75	11	11	5	200	X	X	X	TSK
CANADA	BASIN	SB361	73	42.94	142	32.07	75	11	11	22	200	X	X	X	TSK
CANADA	BASIN	SB362	73	42.86	142	31.92	75	11	12	5	200	X	X	X	TSK
CANADA	BASIN	SB363	73	41.89	142	35.91	75	11	12	20	200	X	X	X	TSK
CANADA	BASIN	SB364	73	40.96	142	42.98	75	11	13	7	200	X	X	X	TSK
CANADA	BASIN	SB365	73	36.16	143	1.59	75	11	14	7	196	X	X	X	TSK
CANADA	BASIN	SB366	73	30.96	143	11.95	75	11	14	23	200	X	X	X	TSK
CANADA	BASIN	SB367	73	30.41	143	12.05	75	11	15	5	200	X	X	X	TSK
CANADA	BASIN	SB368	73	29.90	143	8.82	75	11	16		200	X	X	X	TSK
CANADA	BASIN	SB369	73	29.90	143	8.67	75	11	16	5	200	X	X	X	TSK
CANADA	BASIN	SB370	73	29.86	143	8.25	75	11	16	22	200	X	X	X	TSK
CANADA	BASIN	SB371	73	29.85	143	8.33	75	11	17	5	200	X	X	X	TSK
CANADA	BASIN	SB372	73	29.87	143	8.51	75	11	17	22	200	X	X	X	TSK
CANADA	BASIN	SB373	73	29.86	143	8.44	75	11	18	5	200	X	X	X	TSK
CANADA	BASIN	SB374	73	29.85	143	8.41	75	11	18	22	200	X	X	X	TSK
CANADA	BASIN	SB375	73	29.83	143	8.42	75	11	19	5	200	X	X	X	TSK
CANADA	BASIN	SB376	73	30.19	143	9.56	75	11	19	22	200	X	X	X	TSK
CANADA	BASIN	SB377	73	31.24	143	12.12	75	11	20	5	198	X	X	X	TSK
CANADA	BASIN	SB378	73	36.24	143	26.25	75	11	21		190	X	X	X	TSK

CANADA	BASIN	SB379	73	38.85	143	32.11	75	11	21	7	194	X	X	X	TSK
CANADA	BASIN	SB380	73	45.60	143	46.93	75	11	22		196	X	X	X	TSK
CANADA	BASIN	SB381	73	48.35	143	50.79	75	11	22	7	200	X	X	X	TSK
CANADA	BASIN	SB382	73	51.72	143	55.85	75	11	23	5	200	X	X	X	TSK
CANADA	BASIN	SB383	73	52.33	144	5.02	75	11	23	22	200	X	X	X	TSK
CANADA	BASIN	SB384	73	52.61	144	7.29	75	11	24	5	200	X	X	X	TSK
CANADA	BASIN	SB385	73	53.06	144	12.27	75	11	24	22	200	X	X	X	TSK
CANADA	BASIN	SB386	73	53.54	144	18.24	75	11	25	7	200	X	X	X	TSK
CANADA	BASIN	SB387	73	54.39	144	30.50	75	11	26		163	X	X	X	TSK
CANADA	BASIN	SB388	73	55.42	144	35.49	75	11	26	6	158	X	X	X	TSK
CANADA	BASIN	SB389	73	59.43	144	44.91	75	11	27		200	X	X	X	TSK
CANADA	BASIN	SB390	74	0.37	144	46.92	75	11	27	5	200	X	X	X	TSK
CANADA	BASIN	SB391	74	0.80	144	48.14	75	11	27	22	200	X	X	X	TSK
CANADA	BASIN	SB392	74	0.78	144	49.10	75	11	28	5	200	X	X	X	TSK
CANADA	BASIN	SB393	74	1.48	144	59.80	75	11	29	5	200	X	X	X	TSK
CANADA	BASIN	SB394	74	1.01	145	4.02	75	11	29	22	200	X	X	X	TSK
CANADA	BASIN	SB395	74	0.66	145	3.80	75	11	30	5	200	X	X	X	TSK
CANADA	BASIN	SB396	73	59.02	144	59.22	75	12	1		196	X	X	X	TSK
CANADA	BASIN	SB397	73	57.44	144	56.63	75	12	1	7	180	X	X	X	TSK
CANADA	BASIN	SB398	73	53.84	144	58.10	75	12	2		186	X	X	X	TSK
CANADA	BASIN	SB399	73	53.31	144	58.41	75	12	2	5	184	X	X	X	TSK
CANADA	BASIN	SB400	73	52.03	144	56.06	75	12	2	22	198	X	X	X	TSK
CANADA	BASIN	SB401	73	51.78	144	53.88	75	12	3	5	198	X	X	X	TSK
CANADA	BASIN	SB402	73	51.43	144	50.54	75	12	3	23	198	X	X	X	TSK
CANADA	BASIN	SB403	73	51.36	144	50.28	75	12	4	5	200	X	X	X	TSK
CANADA	BASIN	SB404	73	51.32	144	49.98	75	12	4	23	200	X	X	X	TSK
CANADA	BASIN	SB405	73	51.32	144	49.93	75	12	5	5	200	X	X	X	TSK
CANADA	BASIN	SB406	73	51.14	144	49.64	75	12	5	22	200	X	X	X	TSK
CANADA	BASIN	SB407	73	51.03	144	49.48	75	12	6	6	200	X	X	X	TSK
CANADA	BASIN	SB408	73	50.94	144	48.66	75	12	6	22	200	X	X	X	TSK
CANADA	BASIN	SB409	73	50.97	144	46.69	75	12	7	5	200	X	X	X	TSK
CANADA	BASIN	SB410	73	53.64	144	38.00	75	12	8		200	X	X	X	TSK
CANADA	BASIN	SB411	73	55.18	144	37.99	75	12	8	7	200	X	X	X	TSK
CANADA	BASIN	SB412	73	56.81	144	49.30	75	12	8	22	200	X	X	X	TSK
CANADA	BASIN	SB413	73	56.46	144	50.76	75	12	9	5	200	X	X	X	TSK
CANADA	BASIN	SB414	73	54.66	144	48.72	75	12	9	22	198	X	X	X	TSK
CANADA	BASIN	SB415	73	53.71	144	44.42	75	12	10	7	198	X	X	X	TSK
CANADA	BASIN	SB416	73	50.75	144	35.27	75	12	11	6	200	X	X	X	TSK
CANADA	BASIN	SB417	73	49.94	144	33.19	75	12	11	23	200	X	X	X	TSK
CANADA	BASIN	SB418	73	49.96	144	33.18	75	12	12	5	200	X	X	X	TSK
CANADA	BASIN	SB419	73	49.95	144	33.23	75	12	12	23	200	X	X	X	TSK
CANADA	BASIN	SB420	73	49.90	144	33.09	75	12	13	5	200	X	X	X	TSK
CANADA	BASIN	SB421	73	50.68	144	39.61	75	12	13	23	200	X	X	X	TSK
CANADA	BASIN	SB422	73	51.51	144	45.48	75	12	14	6	200	X	X	X	TSK
CANADA	BASIN	SB423	73	52.75	144	53.27	75	12	14	23	200	X	X	X	TSK
CANADA	BASIN	SB424	73	53.16	144	52.99	75	12	15	5	200	X	X	X	TSK
CANADA	BASIN	SB425	73	53.89	144	48.32	75	12	15	23	200	X	X	X	TSK
CANADA	BASIN	SB426	73	53.86	144	46.70	75	12	16	5	200	X	X	X	TSK
CANADA	BASIN	SB427	73	54.46	144	54.60	75	12	16	23	200	X	X	X	TSK
CANADA	BASIN	SB428	73	55.05	145	0.75	75	12	17	6	200	X	X	X	TSK
CANADA	BASIN	SB429	73	51.98	145	12.87	75	12	18	9	200	X	X	X	TSK
CANADA	BASIN	SB430	73	47.84	144	58.85	75	12	25	21	200	X	X	X	TSK
CANADA	BASIN	SB431	73	47.82	144	58.74	75	12	26	4	200	X	X	X	TSK
CANADA	BASIN	SB432	73	47.81	144	58.76	75	12	26	21	200	X	X	X	TSK
CANADA	BASIN	SB433	73	47.93	144	59.58	75	12	27	6	200	X	X	X	TSK
CANADA	BASIN	SB434	73	48.40	145	5.26	75	12	27	19	200	X	X	X	TSK
CANADA	BASIN	SB435	73	49.12	145	11.26	75	12	28	5	195	X	X	X	TSK
CANADA	BASIN	SB436	73	50.10	145	19.44	75	12	28	21	199	X	X	X	TSK
CANADA	BASIN	SB437	73	50.11	145	20.21	75	12	29	5	200	X	X	X	TSK
CANADA	BASIN	SB438	73	49.34	145	15.05	75	12	29	21	200	X	X	X	TSK
CANADA	BASIN	SB439	73	49.09	145	11.24	75	12	30	5	200	X	X	X	TSK
CANADA	BASIN	SB440	73	48.77	145	6.23	75	12	30	21	200	X	X	X	TSK
CANADA	BASIN	SB441	73	48.83	145	5.77	75	12	31	6	200	X	X	X	TSK
CANADA	BASIN	SB442	73	50.53	145	12.23	75	12	31	22	200	X	X	X	TSK
CANADA	BASIN	SB443	73	51.71	145	18.47	76	1	1	6	199	X	X	X	TSK
CANADA	BASIN	SB444	73	53.29	145	24.11	76	1	1	23	200	X	X	X	TSK
CANADA	BASIN	SB445	73	53.37	145	23.87	76	1	2	6	200	X	X	X	TSK
CANADA	BASIN	SB446	73	55.93	145	26.33	76	1	2	21	200	X	X	X	TSK
CANADA	BASIN	SB447	73	57.13	145	30.06	76	1	3	5	200	X	X	X	TSK
CANADA	BASIN	SB448	74	0.27	145	35.05	76	1	3	21	191	X	X	X	TSK
CANADA	BASIN	SB449	74	0.90	145	35.76	76	1	3	23	*	X	X	X	TSK
CANADA	BASIN	SB450	74	3.03	145	38.36	76	1	4	6	199	X	X	X	TSK
CANADA	BASIN	SB451	74	7.88	145	46.62	76	1	4	21	200	X	X	X	TSK
CANADA	BASIN	SB452	74	9.66	145	50.32	76	1	5	5	150	X	X	X	TSK
CANADA	BASIN	SB453	74	9.84	145	50.67	76	1	5	6	200	X	X	X	TSK
CANADA	BASIN	SB454	74	11.02	145	51.90	76	1	5	21	200	X	X	X	TSK
CANADA	BASIN	SB455	74	11.13	145	50.93	76	1	6	5	199	X	X	X	TSK
CANADA	BASIN	SB456	74	11.73	145	46.40	76	1	6	21	197	X	X	X	TSK
CANADA	BASIN	SB457	74	12.36	145	45.22	76	1	7	6	189	X	X	X	TSK
CANADA	BASIN	SB458	74	12.84	145	46.46	76	1	7	21	192	X	X	X	TSK
CANADA	BASIN	SB459	74	12.90	145	47.07	76	1	8	6	195	X	X	X	TSK
CANADA	BASIN	SB460	74	12.10	145	48.50	76	1	8	21	178	X	X	X	TSK
CANADA	BASIN	SB461	74	7.02	145	43.53	76	1	10	5	193	X	X	X	TSK

CANADA	BASIN	SB462	74	5.63	145	22.56	76	1	11	7	195	X	X	X	TSK
CANADA	BASIN	SB463	74	0.57	145	15.49	76	1	11	20	196	X	X	X	TSK
CANADA	BASIN	SB464	73	57.62	145	6.14	76	1	12	17	197	X	X	X	TSK
CANADA	BASIN	SB465	73	57.61	145	6.20	76	1	12	19	193	X	X	X	TSK
CANADA	BASIN	SB466	73	57.55	145	5.96	76	1	13	7	194	X	X	X	TSK
CANADA	BASIN	SB467	73	57.55	145	5.83	76	1	13	19	194	X	X	X	TSK
CANADA	BASIN	SB468	73	58.31	145	6.27	76	1	14	19	196	X	X	X	TSK
CANADA	BASIN	SB469	73	59.53	145	6.89	76	1	15	6	199	X	X	X	TSK
CANADA	BASIN	SB470	73	59.70	145	8.36	76	1	15	19	200	X	X	X	TSK
CANADA	BASIN	SB471	73	58.40	145	6.35	76	1	16	7	198	X	X	X	TSK
CANADA	BASIN	SB472	73	57.49	145	2.64	76	1	16	20	199	X	X	X	TSK
CANADA	BASIN	SB473	73	57.69	145	2.79	76	1	17	6	200	X	X	X	TSK
CANADA	BASIN	SB474	73	57.58	145	4.28	76	1	17	20	200	X	X	X	TSK
CANADA	BASIN	SB475	73	57.19	145	4.10	76	1	18	7	200	X	X	X	TSK
CANADA	BASIN	SB476	73	57.00	145	3.93	76	1	18	20	200	X	X	X	TSK
CANADA	BASIN	SB477	73	56.81	145	3.37	76	1	19	6	200	X	X	X	TSK
CANADA	BASIN	SB478	73	56.29	144	59.83	76	1	19	20	200	X	X	X	TSK
CANADA	BASIN	SB479	73	55.90	144	56.14	76	1	20	6	200	X	X	X	TSK
CANADA	BASIN	SB480	73	55.68	144	54.66	76	1	20	21	200	X	X	X	TSK
CANADA	BASIN	SB481	73	55.65	144	54.67	76	1	21	7	200	X	X	X	TSK
CANADA	BASIN	SB482	73	55.45	144	56.81	76	1	21	20	200	X	X	X	TSK
CANADA	BASIN	SB483	73	55.30	144	58.76	76	1	22		200	X	X	X	TSK
CANADA	BASIN	SB484	73	54.77	145	1.56	76	1	22	6	200	X	X	X	TSK
CANADA	BASIN	SB485	73	54.14	145	3.66	76	1	22	20	200	X	X	X	TSK
CANADA	BASIN	SB486	73	53.27	145	5.49	76	1	23	7	200	X	X	X	TSK
CANADA	BASIN	SB487	73	52.80	145	4.90	76	1	23	19	200	X	X	X	TSK
CANADA	BASIN	SB488	73	52.64	145	2.91	76	1	24	6	200	X	X	X	TSK
CANADA	BASIN	SB489	73	51.85	145	0.42	76	1	24	21	200	X	X	X	TSK
CANADA	BASIN	SB490	73	51.67	145	0.43	76	1	25	6	200	X	X	X	TSK
CANADA	BASIN	SB491	73	51.31	145	0.54	76	1	25	20	200	X	X	X	TSK
CANADA	BASIN	SB492	73	51.27	145	0.65	76	1	26	7	200	X	X	X	TSK
CANADA	BASIN	SB493	73	51.28	145	0.71	76	1	26	20	200	X	X	X	TSK
CANADA	BASIN	SB494	73	51.28	145	0.54	76	1	27	7	200	X	X	X	TSK
CANADA	BASIN	SB495	73	51.27	145	0.63	76	1	27	19	200	X	X	X	TSK
CANADA	BASIN	SB496	73	51.26	145	0.79	76	1	28	7	200	X	X	X	TSK
CANADA	BASIN	SB497	73	51.26	145	0.59	76	1	28	20	200	X	X	X	TSK
CANADA	BASIN	SB498	73	51.28	145	0.69	76	1	29	6	200	X	X	X	TSK
CANADA	BASIN	SB499	73	51.54	145	3.96	76	1	29	20	200	X	X	X	TSK
CANADA	BASIN	SB500	73	51.74	145	11.89	76	1	30	7	199	X	X	X	TSK
CANADA	BASIN	SB501	73	52.05	145	27.70	76	1	30	20	200	X	X	X	TSK
CANADA	BASIN	SB502	73	52.36	145	37.26	76	1	31	6	200	X	X	X	TSK
CANADA	BASIN	SB503	73	52.58	145	41.67	76	1	31	12	*	X	X	X	TSK
CANADA	BASIN	SB504	73	55.48	145	48.31	76	2	1	21	200	X	X	X	TSK
CANADA	BASIN	SB505	73	52.50	145	28.46	76	2	6	8	197	X	X	X	TSK
CANADA	BASIN	SB506	73	50.53	145	18.11	76	2	7		194	X	X	X	TSK
CANADA	BASIN	SB507	73	49.81	145	13.96	76	2	7	6	176	X	X	X	TSK
CANADA	BASIN	SB508	73	46.03	145	1.63	76	2	8	7	198	X	X	X	TSK
CANADA	BASIN	SB509	73	43.43	144	51.18	76	2	9	7	198	X	X	X	TSK
CANADA	BASIN	SB510	73	42.93	144	47.67	76	2	9	23	200	X	X	X	TSK
CANADA	BASIN	SB511	73	42.91	144	47.55	76	2	10	6	200	X	X	X	TSK
CANADA	BASIN	SB512	73	42.89	144	47.60	76	2	10	23	200	X	X	X	TSK
CANADA	BASIN	SB513	73	42.90	144	47.70	76	2	11	6	200	X	X	X	TSK
CANADA	BASIN	SB514	73	42.76	144	46.11	76	2	12		200	X	X	X	TSK
CANADA	BASIN	SB515	73	42.43	144	45.31	76	2	12	6	200	X	X	X	TSK
CANADA	BASIN	SB516	73	41.60	144	43.28	76	2	12	23	200	X	X	X	TSK
CANADA	BASIN	SB517	73	41.59	144	43.38	76	2	13	6	200	X	X	X	TSK
CANADA	BASIN	SB518	73	41.59	144	43.29	76	2	13	23	200	X	X	X	TSK
CANADA	BASIN	SB519	73	41.58	144	43.43	76	2	14	6	200	X	X	X	TSK
CANADA	BASIN	SB520	73	41.58	144	43.47	76	2	15	6	200	X	X	X	TSK
CANADA	BASIN	SB521	73	41.60	144	43.41	76	2	16		200	X	X	X	TSK
CANADA	BASIN	SB522	73	41.59	144	43.37	76	2	16	7	200	X	X	X	TSK
CANADA	BASIN	SB523	73	41.63	144	43.40	76	2	16	23	200	X	X	X	TSK
CANADA	BASIN	SB524	73	41.36	144	41.87	76	2	17	6	200	X	X	X	TSK
CANADA	BASIN	SB525	73	41.59	144	43.40	76	2	18		200	X	X	X	TSK
CANADA	BASIN	SB526	73	41.57	144	43.42	76	2	18	7	200	X	X	X	TSK
CANADA	BASIN	SB527	73	41.59	144	43.39	76	2	18	23	200	X	X	X	TSK
CANADA	BASIN	SB528	73	41.58	144	43.42	76	2	20		200	X	X	X	TSK
CANADA	BASIN	SB529	73	41.58	144	43.45	76	2	20	6	200	X	X	X	TSK
CANADA	BASIN	SB530	73	41.59	144	43.20	76	2	20	20	200	X	X	X	TSK
CANADA	BASIN	SB531	73	41.58	144	43.42	76	2	21	7	200	X	X	X	TSK
CANADA	BASIN	SB532	73	41.58	144	43.40	76	2	21	20	200	X	X	X	TSK
CANADA	BASIN	SB533	73	41.58	144	43.43	76	2	22	7	200	X	X	X	TSK
CANADA	BASIN	SB534	73	41.59	144	43.33	76	2	22	23	200	X	X	X	TSK
CANADA	BASIN	SB535	73	41.58	144	43.43	76	2	23	6	200	X	X	X	TSK
CANADA	BASIN	SB536	73	41.59	144	43.48	76	2	23	23	200	X	X	X	TSK
CANADA	BASIN	SB537	73	41.58	144	43.60	76	2	24	7	200	X	X	X	TSK
CANADA	BASIN	SB538	73	41.60	144	43.53	76	2	24	20	200	X	X	X	TSK
CANADA	BASIN	SB539	73	41.59	144	43.38	76	2	25	20	200	X	X	X	TSK
CANADA	BASIN	SB540	73	41.59	144	43.60	76	2	26	6	200	X	X	X	TSK
CANADA	BASIN	SB541	73	44.24	144	43.24	76	2	27	6	200	X	X	X	TSK
CANADA	BASIN	SB542	73	44.36	144	39.98	76	2	27	23	200	X	X	X	TSK
CANADA	BASIN	SB543	73	44.26	144	39.97	76	2	28	6	200	X	X	X	TSK
CANADA	BASIN	SB544	73	44.39	144	40.15	76	2	28	20	200	X	X	X	TSK

CANADA BASIN	SB545	73	45.28	144	40.89	76	2	29	6	200	X	X	X	TSK
CANADA BASIN	SB546	73	46.91	144	42.42	76	2	29	20	200	X	X	X	TSK
CANADA BASIN	SB547	73	47.94	144	44.45	76	3	1	6	200	X	X	X	TSK
CANADA BASIN	SB548	73	47.90	144	45.06	76	3	1	21	200	X	X	X	TSK
CANADA BASIN	SB549	73	47.61	144	46.31	76	3	2	5	200	X	X	X	TSK
CANADA BASIN	SB550	73	46.72	144	43.53	76	3	3	7	200	X	X	X	TSK
CANADA BASIN	SB551	73	45.50	145	6.08	76	3	4	20	200	X	X	X	TSK
CANADA BASIN	SB552	73	43.44	145	7.46	76	3	5	22	200	X	X	X	TSK
CANADA BASIN	SB553	73	43.14	145	5.96	76	3	6	6	200	X	X	X	TSK
CANADA BASIN	SB554	73	43.14	145	3.55	76	3	6	20	200	X	X	X	TSK
CANADA BASIN	SB555	73	45.26	145	36.70	76	3	11	6	200	X	X	X	TSK
CANADA BASIN	SB556	73	44.73	145	39.98	76	3	12		200	X	X	X	TSK
CANADA BASIN	SB557	73	22.05	145	24.48	76	3	22	20	200	X	X	X	TSK
CANADA BASIN	SB558	73	22.05	145	24.51	76	3	23	8	200	X	X	X	TSK
CANADA BASIN	SB559	73	22.05	145	24.49	76	3	23	20	200	X	X	X	TSK
CANADA BASIN	SB560	73	22.03	145	23.94	76	3	24	7	200	X	X	X	TSK
CANADA BASIN	SB561	73	22.05	145	23.80	76	3	24	20	200	X	X	X	TSK
CANADA BASIN	SB562	73	22.09	145	22.80	76	3	25	6	200	X	X	X	TSK
CANADA BASIN	SB563	73	22.11	145	23.02	76	3	25	19	200	X	X	X	TSK
CANADA BASIN	SB564	73	22.09	145	23.02	76	3	26	6	200	X	X	X	TSK
CANADA BASIN	SB565	73	22.10	145	23.04	76	3	26	20	200	X	X	X	TSK
CANADA BASIN	SB566	73	22.07	145	22.99	76	3	27	13	200	X	X	X	TSK
CANADA BASIN	SB567	73	22.09	145	22.98	76	3	27	21	200	X	X	X	TSK
CANADA BASIN	SB568	73	22.10	145	23.05	76	3	28	6	200	X	X	X	TSK
CANADA BASIN	SB569	73	22.09	145	23.03	76	3	28	19	200	X	X	X	TSK
CANADA BASIN	SB570	73	22.10	145	22.99	76	3	29	6	200	X	X	X	TSK
CANADA BASIN	SB571	73	22.10	145	23.04	76	3	29	19	200	X	X	X	TSK
CANADA BASIN	SB572	73	22.10	145	23.02	76	3	30	7	200	X	X	X	TSK
CANADA BASIN	SB573	73	22.09	145	22.98	76	3	30	19	200	X	X	X	TSK
CANADA BASIN	SB574	73	22.10	145	22.95	76	3	31	6	200	X	X	X	TSK
CANADA BASIN	SB575	73	22.11	145	22.57	76	3	31	19	200	X	X	X	TSK
CANADA BASIN	SB576	73	22.09	145	23.06	76	4	1	6	200	X	X	X	TSK
CANADA BASIN	SB577	73	22.11	145	22.96	76	4	1	19	200	X	X	X	TSK
CANADA BASIN	SB578	73	22.10	145	23.03	76	4	2	7	200	X	X	X	TSK
CANADA BASIN	SB579	73	22.10	145	23.04	76	4	2	19	200	X	X	X	TSK
CANADA BASIN	SB580	73	22.02	145	23.04	76	4	3	6	200	X	X	X	TSK
CANADA BASIN	SB581	73	22.10	145	23.03	76	4	3	19	200	X	X	X	TSK
CANADA BASIN	SB582	73	22.09	145	22.94	76	4	4	6	200	X	X	X	TSK
CANADA BASIN	SB583	73	22.10	145	23.01	76	4	4	19	200	X	X	X	TSK
CANADA BASIN	SB584	73	22.07	145	24.61	76	4	5		200	X	X	X	TSK
CANADA BASIN	SB585	73	21.89	145	28.29	76	4	5	6	200	X	X	X	TSK
CANADA BASIN	SB586	73	21.78	145	29.94	76	4	5	19	200	X	X	X	TSK
CANADA BASIN	SB587	73	21.89	145	32.54	76	4	6	7	200	X	X	X	TSK
CANADA BASIN	SB588	73	22.06	145	33.79	76	4	6	20	200	X	X	X	TSK
CANADA BASIN	SB589	73	22.07	145	33.88	76	4	7	7	200	X	X	X	TSK
CANADA BASIN	SB590	73	22.01	145	33.58	76	4	7	19	200	X	X	X	TSK
CANADA BASIN	SB591	73	21.98	145	33.27	76	4	8	6	200	X	X	X	TSK
CANADA BASIN	SB592	73	22.81	145	35.48	76	4	8	20	200	X	X	X	TSK
CANADA BASIN	SB593	73	24.77	145	38.96	76	4	9	8	200	X	X	X	TSK
CANADA BASIN	SB594	73	24.57	145	40.08	76	4	9	20	200	X	X	X	TSK
CANADA BASIN	SB595	73	23.39	145	43.11	76	4	10	6	200	X	X	X	TSK
CANADA BASIN	SB596	73	22.73	145	48.73	76	4	10	19	200	X	X	X	TSK
CANADA BASIN	SB597	73	22.49	145	56.28	76	4	11	6	200	X	X	X	TSK
CANADA BASIN	SB598	73	22.83	146	7.43	76	4	11	20	200	X	X	X	TSK
CANADA BASIN	SB599	73	23.87	146	12.88	76	4	12	6	200	X	X	X	TSK
CANADA BASIN	SB600	73	24.03	146	13.05	76	4	12	19	200	X	X	X	TSK
CANADA BASIN	SB601	73	23.95	146	12.56	76	4	13	6	200	X	X	X	TSK
CANADA BASIN	SB602	73	23.80	146	10.70	76	4	13	19	200	X	X	X	TSK
CANADA BASIN	SB603	73	23.55	146	9.08	76	4	14	6	200	X	X	X	TSK
CANADA BASIN	SB604	73	23.36	146	4.83	76	4	14	19	200	X	X	X	TSK
CANADA BASIN	SB605	73	23.42	146	3.36	76	4	14	21	199	X	X	X	TSK
CANADA BASIN	SB606	73	23.52	146	2.01	76	4	14	23	*	X	X	X	TSK
CANADA BASIN	SB607	73	23.93	145	56.67	76	4	15	7	199	X	X	X	TSK
CANADA BASIN	SB608	73	24.72	145	51.04	76	4	15	19	200	X	X	X	TSK
CANADA BASIN	SB609	73	24.82	145	50.07	76	4	15	20	*	X	X	X	TSK
CANADA BASIN	SB610	73	25.49	145	44.47	76	4	16	6	200	X	X	X	TSK
CANADA BASIN	SB611	73	25.62	145	43.78	76	4	16	22	200	X	X	X	TSK
CANADA BASIN	SB612	73	25.51	145	43.64	76	4	17	6	199	X	X	X	TSK
CANADA BASIN	SB613	73	25.75	145	43.94	76	4	17	21	198	X	X	X	TSK
CANADA BASIN	SB614	73	25.84	145	44.08	76	4	18	2	199	X	X	X	TSK
CANADA BASIN	SB615	73	25.83	145	45.23	76	4	18	13	198	X	X	X	TSK
CANADA BASIN	SB616	73	25.61	145	48.63	76	4	19	1	197	X	X	X	TSK
CANADA BASIN	SB617	73	25.18	145	52.21	76	4	19	13	198	X	X	X	TSK
CANADA BASIN	SB618	73	24.22	145	56.92	76	4	20	1	200	X	X	X	TSK
CANADA BASIN	SB619	73	23.95	145	59.31	76	4	20	7	200	X	X	X	TSK
CANADA BASIN	SB620	73	23.72	146	1.33	76	4	20	19	200	X	X	X	TSK
CANADA BASIN	BB 1	0	0.00	0	0.00	75	4	8	5	200	X	X	X	TSK
CANADA BASIN	BB 2	0	0.00	0	0.00	75	4	9	18	200	X	X	X	TSK
CANADA BASIN	BB 3	0	0.00	0	0.00	75	4	10	5	200	X	X	X	TSK
CANADA BASIN	BB 4	0	0.00	0	0.00	75	4	10	17	200	X	X	X	TSK
CANADA BASIN	BB 5	76	21.10	145	20.77	75	4	11	5	200	X	X	X	TSK
CANADA BASIN	BB 6	76	21.08	145	20.52	75	4	11	6	*	X	X	X	TSK
CANADA BASIN	BB 7	76	21.09	145	18.07	75	4	11	17	195	X	X	X	TSK

CANADA BASIN	BB	8	76	21.16	145	17.93	75	4	11	18	200	X	X	X	TSK
CANADA BASIN	BB	9	76	21.35	145	15.06	75	4	12	7	200	X	X	X	TSK
CANADA BASIN	BB	10	76	21.19	145	15.71	75	4	13		200	X	X	X	TSK
CANADA BASIN	BB	11	76	21.27	145	15.98	75	4	13	7	200	X	X	X	TSK
CANADA BASIN	BB	12	76	21.34	145	17.16	75	4	13	17	193	X	X	X	TSK
CANADA BASIN	BB	13	76	22.57	145	21.15	75	4	14	6	196	X	X	X	TSK
CANADA BASIN	BB	14	76	25.31	145	30.99	75	4	14	17	182	X	X	X	TSK
CANADA BASIN	BB	15	76	26.11	145	32.59	75	4	14	19	200	X	X	X	TSK
CANADA BASIN	BB	16	76	29.20	145	35.88	75	4	15	5	190	X	X	X	TSK
CANADA BASIN	BB	17	76	29.91	145	34.36	75	4	15	17	192	X	X	X	TSK
CANADA BASIN	BB	18	76	29.27	145	20.87	75	4	16	5	194	X	X	X	TSK
CANADA BASIN	BB	19	76	30.20	145	11.45	75	4	16	18	193	X	X	X	TSK
CANADA BASIN	BB	20	76	30.65	145	0.52	75	4	17	5	195	X	X	X	TSK
CANADA BASIN	BB	21	76	29.91	144	54.97	75	4	17	18	195	X	X	X	TSK
CANADA BASIN	BB	22	76	28.92	144	48.40	75	4	18	6	200	X	X	X	TSK
CANADA BASIN	BB	23	76	28.81	144	43.97	75	4	18	20	198	X	X	X	TSK
CANADA BASIN	BB	24	76	29.12	144	41.12	75	4	18	23	*	X	X	X	TSK
CANADA BASIN	BB	25	76	28.84	144	37.48	75	4	19	6	195	X	X	X	TSK
CANADA BASIN	BB	26	76	28.93	144	31.83	75	4	19	19	195	X	X	X	TSK
CANADA BASIN	BB	27	76	28.84	144	26.44	75	4	20	6	200	X	X	X	TSK
CANADA BASIN	BB	28	76	28.79	144	25.67	75	4	20	19	200	X	X	X	TSK
CANADA BASIN	BB	29	76	28.84	144	25.94	75	4	20	20	*	X	X	X	TSK
CANADA BASIN	BB	30	76	29.36	144	26.73	75	4	21	6	200	X	X	X	TSK
CANADA BASIN	BB	31	76	29.48	144	28.18	75	4	21	20	184	X	X	X	TSK
CANADA BASIN	BB	32	76	29.45	144	28.68	75	4	21	22	200	X	X	X	TSK
CANADA BASIN	BB	33	76	29.00	144	32.44	75	4	22	6	190	X	X	X	TSK
CANADA BASIN	BB	34	76	28.08	144	35.94	75	4	22	20	200	X	X	X	TSK
CANADA BASIN	BB	35	76	26.98	144	32.96	75	4	23	7	165	X	X	X	TSK
CANADA BASIN	BB	36	76	26.35	144	31.03	75	4	23	19	200	X	X	X	TSK
CANADA BASIN	BB	37	76	26.21	144	29.71	75	4	24	6	200	X	X	X	TSK
CANADA BASIN	BB	38	76	26.31	144	30.15	75	4	24	19	200	X	X	X	TSK
CANADA BASIN	BB	39	76	25.83	144	27.90	75	4	25	6	200	X	X	X	TSK
CANADA BASIN	BB	40	76	25.84	144	27.98	75	4	25	19	200	X	X	X	TSK
CANADA BASIN	BB	41	76	26.44	144	26.48	75	4	26	6	200	X	X	X	TSK
CANADA BASIN	BB	42	76	26.65	144	26.95	75	4	26	19	200	X	X	X	TSK
CANADA BASIN	BB	43	76	26.29	144	26.30	75	4	27	6	194	X	X	X	TSK
CANADA BASIN	BB	44	76	25.76	144	22.86	75	4	27	19	194	X	X	X	TSK
CANADA BASIN	BB	45	76	25.20	144	21.18	75	4	28	6	200	X	X	X	TSK
CANADA BASIN	BB	46	76	25.16	144	19.98	75	4	28	19	200	X	X	X	TSK
CANADA BASIN	BB	47	76	25.19	144	18.12	75	4	29	6	200	X	X	X	TSK
CANADA BASIN	BB	48	76	25.45	144	15.95	75	4	29	19	194	X	X	X	TSK
CANADA BASIN	BB	49	76	27.28	144	5.38	75	4	30	6	194	X	X	X	TSK
CANADA BASIN	BB	50	76	28.82	143	45.48	75	4	30	19	153	X	X	X	TSK
CANADA BASIN	BB	51	76	28.37	143	43.14	75	4	30	23	159	X	X	X	TSK
CANADA BASIN	BB	52	76	27.83	143	39.98	75	5	1	6	188	X	X	X	TSK
CANADA BASIN	BB	53	76	27.70	143	39.84	75	5	1	19	191	X	X	X	TSK
CANADA BASIN	BB	54	76	27.13	143	41.66	75	5	2	6	192	X	X	X	TSK
CANADA BASIN	BB	55	76	27.21	143	45.33	75	5	2	19	192	X	X	X	TSK
CANADA BASIN	BB	56	76	26.58	143	51.87	75	5	3	6	200	X	X	X	TSK
CANADA BASIN	BB	57	76	26.10	143	57.16	75	5	3	19	200	X	X	X	TSK
CANADA BASIN	BB	58	76	25.71	144	4.08	75	5	4	6	200	X	X	X	TSK
CANADA BASIN	BB	59	76	25.42	144	9.27	75	5	4	19	193	X	X	X	TSK
CANADA BASIN	BB	60	76	25.48	144	21.19	75	5	5	6	194	X	X	X	TSK
CANADA BASIN	BB	61	76	25.59	144	35.67	75	5	5	19	190	X	X	X	TSK
CANADA BASIN	BB	62	76	26.32	144	46.73	75	5	6	6	190	X	X	X	TSK
CANADA BASIN	BB	63	76	26.84	144	58.03	75	5	6	19	188	X	X	X	TSK
CANADA BASIN	BB	64	76	27.59	145	4.59	75	5	7	6	200	X	X	X	TSK
CANADA BASIN	BB	65	76	27.86	145	7.92	75	5	7	19	200	X	X	X	TSK
CANADA BASIN	BB	66	76	28.01	145	9.80	75	5	8	6	200	X	X	X	TSK
CANADA BASIN	BB	67	76	28.16	145	12.91	75	5	8	19	200	X	X	X	TSK
CANADA BASIN	BB	68	76	28.95	145	14.20	75	5	9	6	200	X	X	X	TSK
CANADA BASIN	BB	69	76	29.77	145	13.54	75	5	9	19	200	X	X	X	TSK
CANADA BASIN	BB	70	76	29.76	145	12.35	75	5	10	6	200	X	X	X	TSK
CANADA BASIN	BB	71	76	28.58	14	9.89	75	5	10	19	194	X	X	X	TSK
CANADA BASIN	BB	72	76	27.23	145	7.11	75	5	11	6	194	X	X	X	TSK
CANADA BASIN	BB	73	76	25.81	145	5.11	75	5	11	19	200	X	X	X	TSK
CANADA BASIN	BB	74	76	24.44	145	6.98	75	5	12	6	200	X	X	X	TSK
CANADA BASIN	BB	75	76	22.85	145	7.61	75	5	12	19	191	X	X	X	TSK
CANADA BASIN	BB	76	76	20.73	145	12.17	75	5	13	6	194	X	X	X	TSK
CANADA BASIN	BB	77	76	18.67	145	13.81	75	5	13	19	200	X	X	X	TSK
CANADA BASIN	BB	78	76	17.03	145	9.90	75	5	14	6	194	X	X	X	TSK
CANADA BASIN	BB	79	76	15.28	145	3.74	75	5	14	19	193	X	X	X	TSK
CANADA BASIN	BB	80	76	13.66	144	55.96	75	5	15	6	193	X	X	X	TSK
CANADA BASIN	BB	81	76	11.70	144	54.91	75	5	15	19	200	X	X	X	TSK
CANADA BASIN	BB	82	76	10.75	144	55.45	75	5	16	6	200	X	X	X	TSK
CANADA BASIN	BB	83	76	11.77	144	54.50	75	5	16	19	200	X	X	X	TSK
CANADA BASIN	BB	84	76	13.64	144	58.25	75	5	17	6	200	X	X	X	TSK
CANADA BASIN	BB	85	76	15.57	145	9.83	75	5	17	19	193	X	X	X	TSK
CANADA BASIN	BB	86	76	16.56	145	20.43	75	5	18	6	193	X	X	X	TSK
CANADA BASIN	BB	87	76	16.47	145	31.46	75	5	18	19	194	X	X	X	TSK
CANADA BASIN	BB	88	76	15.70	145	40.73	75	5	19	6	194	X	X	X	TSK
CANADA BASIN	BB	89	76	14.34	145	44.47	75	5	19	19	194	X	X	X	TSK
CANADA BASIN	BB	90	76	13.10	145	46.73	75	5	20	6	200	X	X	X	TSK

CANADA BASIN	BB 91	76	12.50	145	45.69	75	5	20	17	200	X	X	X	TSK
CANADA BASIN	BB 92	76	12.23	145	42.98	75	5	21	5	200	X	X	X	TSK
CANADA BASIN	BB 93	76	12.26	145	39.55	75	5	21	17	192	X	X	X	TSK
CANADA BASIN	BB 94	76	13.44	145	34.86	75	5	22	5	200	X	X	X	TSK
CANADA BASIN	BB 95	76	14.20	145	29.90	75	5	22	17	200	X	X	X	TSK
CANADA BASIN	BB 96	76	14.50	145	24.52	75	5	23	5	200	X	X	X	TSK
CANADA BASIN	BB 97	76	14.54	145	21.52	75	5	23	17	200	X	X	X	TSK
CANADA BASIN	BB 98	76	14.48	145	20.90	75	5	23	19	200	X	X	X	TSK
CANADA BASIN	BB 99	76	14.28	145	19.79	75	5	24		200	X	X	X	TSK
CANADA BASIN	BB100	76	13.90	145	18.39	75	5	24	6	200	X	X	X	TSK
CANADA BASIN	BB101	76	13.56	145	16.80	75	5	24	17	200	X	X	X	TSK
CANADA BASIN	BB102	76	16.20	146	5.18	75	5	28	5	183	X	X	X	TSK
CANADA BASIN	BB103	76	17.54	146	15.20	75	5	28	17	178	X	X	X	TSK
CANADA BASIN	BB104	76	18.23	146	19.23	75	5	28	22	181	X	X	X	TSK
CANADA BASIN	BB105	76	19.22	146	25.13	75	5	29	5	182	X	X	X	TSK
CANADA BASIN	BB106	76	21.02	146	35.26	75	5	29	19	187	X	X	X	TSK
CANADA BASIN	BB107	76	21.29	146	36.77	75	5	29	21	200	X	X	X	TSK
CANADA BASIN	BB108	76	22.47	146	44.55	75	5	30	6	190	X	X	X	TSK
CANADA BASIN	BB109	76	22.57	146	45.10	75	5	30	6	*	X	X	X	TSK
CANADA BASIN	BB110	76	23.89	146	50.91	75	5	30	17	191	X	X	X	TSK
CANADA BASIN	BB111	76	24.40	146	52.72	75	5	30	22	191	X	X	X	TSK
CANADA BASIN	BB112	76	25.37	146	58.96	75	5	31	17	191	X	X	X	TSK
CANADA BASIN	BB113	76	25.37	146	59.50	75	5	31	18	191	X	X	X	TSK
CANADA BASIN	BB114	76	25.36	147	0.36	75	5	31	19	*	X	X	X	TSK
CANADA BASIN	BB115	76	25.37	147	0.72	75	5	31	20	200	X	X	X	TSK
CANADA BASIN	BB116	76	25.39	147	1.26	75	5	31	20	172	X	X	X	TSK
CANADA BASIN	BB117	76	25.49	147	2.65	75	5	31	22	190	X	X	X	TSK
CANADA BASIN	BB118	76	25.56	147	3.72	75	6	1		191	X	X	X	TSK
CANADA BASIN	BB119	76	25.62	147	6.20	75	6	1	5	200	X	X	X	TSK
CANADA BASIN	BB120	76	25.75	147	10.32	75	6	1	17	190	X	X	X	TSK
CANADA BASIN	BB121	76	25.83	147	17.71	75	6	2	5	200	X	X	X	TSK
CANADA BASIN	BB122	76	26.11	147	23.72	75	6	2	20	200	X	X	X	TSK
CANADA BASIN	BB123	76	26.34	147	27.36	75	6	3	6	171	X	X	X	TSK
CANADA BASIN	BB124	76	27.17	147	33.72	75	6	3	19	200	X	X	X	TSK
CANADA BASIN	BB125	76	27.73	147	41.27	75	6	4	6	200	X	X	X	TSK
CANADA BASIN	BB126	76	27.90	147	50.36	75	6	4	18	200	X	X	X	TSK
CANADA BASIN	BB127	76	27.80	147	59.65	75	6	5	5	200	X	X	X	TSK
CANADA BASIN	BB128	76	27.53	148	5.62	75	6	5	17	200	X	X	X	TSK
CANADA BASIN	BB129	76	27.41	148	6.85	75	6	5	19	*	X	X	X	TSK
CANADA BASIN	BB130	76	27.01	148	11.04	75	6	6	4	190	X	X	X	TSK
CANADA BASIN	BB131	76	26.38	148	16.11	75	6	6	17	190	X	X	X	TSK
CANADA BASIN	BB132	76	26.06	148	19.59	75	6	6	22	188	X	X	X	TSK
CANADA BASIN	BB133	76	25.64	148	22.48	75	6	7	5	174	X	X	X	TSK
CANADA BASIN	BB134	76	25.04	148	25.73	75	6	7	17	163	X	X	X	TSK
CANADA BASIN	BB135	76	24.39	148	28.63	75	6	8	5	158	X	X	X	TSK
CANADA BASIN	BB136	76	22.94	148	31.05	75	6	8	19	183	X	X	X	TSK
CANADA BASIN	BB137	76	22.79	148	31.10	75	6	8	20	*	X	X	X	TSK
CANADA BASIN	BB138	76	21.56	148	29.72	75	6	9	6	200	X	X	X	TSK
CANADA BASIN	BB139	76	20.89	148	27.84	75	6	9	17	186	X	X	X	TSK
CANADA BASIN	BB140	76	20.86	148	27.56	75	6	9	18	*	X	X	X	TSK
CANADA BASIN	BB141	76	20.77	148	27.46	75	6	9	20	200	X	X	X	TSK
CANADA BASIN	BB142	76	20.57	148	26.14	75	6	10	5	184	X	X	X	TSK
CANADA BASIN	BB143	76	20.53	148	25.86	75	6	10	6	*	X	X	X	TSK
CANADA BASIN	BB144	76	19.92	148	22.04	75	6	10	17	200	X	X	X	TSK
CANADA BASIN	BB145	76	19.12	148	17.28	75	6	12	5	186	X	X	X	TSK
CANADA BASIN	BB146	76	18.94	148	17.27	75	6	12	19	200	X	X	X	TSK
CANADA BASIN	BB147	76	18.85	148	17.28	75	6	12	23	189	X	X	X	TSK
CANADA BASIN	BB148	76	18.85	148	17.28	75	6	12	23	200	X	X	X	TSK
CANADA BASIN	BB149	76	18.70	148	19.57	75	6	13	6	190	X	X	X	TSK
CANADA BASIN	BB150	76	18.50	148	22.00	75	6	13	17	189	X	X	X	TSK
CANADA BASIN	BB151	76	18.79	148	23.69	75	6	14	6	161	X	X	X	TSK
CANADA BASIN	BB152	76	18.83	148	23.78	75	6	14	7	*	X	X	X	TSK
CANADA BASIN	BB153	76	19.46	148	24.02	75	6	14	17	149	X	X	X	TSK
CANADA BASIN	BB154	76	19.71	148	24.21	75	6	14	19	145	X	X	X	TSK
CANADA BASIN	BB155	76	19.95	148	24.24	75	6	14	21	150	X	X	X	TSK
CANADA BASIN	BB156	76	20.21	148	24.44	75	6	14	23	166	X	X	X	TSK
CANADA BASIN	BB157	76	20.43	148	23.99	75	6	15	2	176	X	X	X	TSK
CANADA BASIN	BB158	76	20.59	148	24.80	75	6	15	5	174	X	X	X	TSK
CANADA BASIN	BB159	76	20.70	148	25.27	75	6	15	6	174	X	X	X	TSK
CANADA BASIN	BB160	76	20.79	148	25.85	75	6	15	8	172	X	X	X	TSK
CANADA BASIN	BB161	76	20.85	148	26.20	75	6	15	10	171	X	X	X	TSK
CANADA BASIN	BB162	76	20.87	148	26.81	75	6	15	12	167	X	X	X	TSK
CANADA BASIN	BB163	76	20.85	148	27.79	75	6	15	14	160	X	X	X	TSK
CANADA BASIN	BB164	76	20.83	148	28.62	75	6	15	15	158	X	X	X	TSK
CANADA BASIN	BB165	76	20.80	148	30.37	75	6	15	17	161	X	X	X	TSK
CANADA BASIN	BB166	76	20.84	148	35.78	75	6	16	5	200	X	X	X	TSK
CANADA BASIN	BB167	76	20.82	148	35.88	75	6	16	6	*	X	X	X	TSK
CANADA BASIN	BB168	76	22.49	148	43.41	75	6	17	6	171	X	X	X	TSK
CANADA BASIN	BB169	76	22.71	148	44.36	75	6	17	7	*	X	X	X	TSK
CANADA BASIN	BB170	76	24.38	148	52.08	75	6	17	17	200	X	X	X	TSK
CANADA BASIN	BB171	76	24.74	149	1.63	75	6	18	5	200	X	X	X	TSK
CANADA BASIN	BB172	76	20.23	149	13.76	75	6	19	5	200	X	X	X	TSK
CANADA BASIN	BB173	76	20.08	149	14.26	75	6	19	6	*	X	X	X	TSK

CANADA	BASIN	BB174	76	24.56	149	29.44	75	6	25	22	186	X	X	X	TSK
CANADA	BASIN	BB175	76	24.39	149	24.09	75	6	26	5	200	X	X	X	TSK
CANADA	BASIN	BB176	76	24.9.	149	21.44	75	6	26	18	200	X	X	X	TSK
CANADA	BASIN	BB177	76	26.71	149	27.76	75	6	27	8	200	X	X	X	TSK
CANADA	BASIN	BB178	76	26.92	149	25.48	75	6	27	15	189	X	X	X	TSK
CANADA	BASIN	BB179	76	26.81	149	20.48	75	6	27	23	190	X	X	X	TSK
CANADA	BASIN	BB180	76	27.24	149	19.32	75	6	28	2	*	X	X	X	TSK
CANADA	BASIN	BB181	76	27.89	149	18.70	75	6	28	5	190	X	X	X	TSK
CANADA	BASIN	BB182	76	27.99	149	18.20	75	6	28	6	*	X	X	X	TSK
CANADA	BASIN	BB183	76	28.20	149	10.80	75	6	28	16	190	X	X	X	TSK
CANADA	BASIN	BB184	76	27.06	149	3.33	75	6	28	23	188	X	X	X	TSK
CANADA	BASIN	BB185	76	26.35	148	57.55	75	6	29	5	190	X	X	X	TSK
CANADA	BASIN	BB186	76	26.12	148	50.41	75	6	29	15	188	X	X	X	TSK
CANADA	BASIN	BB187	76	28.54	148	43.62	75	6	30	5	200	X	X	X	TSK
CANADA	BASIN	BB188	76	33.09	148	41.99	75	6	30	23	200	X	X	X	TSK
CANADA	BASIN	BB189	76	33.17	148	41.63	75	7	1		*	X	X	X	TSK
CANADA	BASIN	BB190	76	33.41	148	37.80	75	7	1	5	187	X	X	X	TSK
CANADA	BASIN	BB191	76	32.71	148	30.62	75	7	1	16	188	X	X	X	TSK
CANADA	BASIN	BB192	76	32.15	148	25.99	75	7	2		200	X	X	X	TSK
CANADA	BASIN	BB193	76	32.35	148	24.42	75	7	2	5	200	X	X	X	TSK
CANADA	BASIN	BB194	76	32.31	148	24.21	75	7	2	6	*	X	X	X	TSK
CANADA	BASIN	BB195	76	32.25	148	25.01	75	7	2	16	200	X	X	X	TSK
CANADA	BASIN	BB196	76	31.82	148	19.50	75	7	2	22	188	X	X	X	TSK
CANADA	BASIN	BB197	76	32.34	148	11.35	75	7	3	5	182	X	X	X	TSK
CANADA	BASIN	BB198	76	32.51	148	6.77	75	7	3	8	185	X	X	X	TSK
CANADA	BASIN	BB199	76	32.51	148	4.53	75	7	3	10	188	X	X	X	TSK
CANADA	BASIN	BB200	76	32.53	148	2.18	75	7	3	12	188	X	X	X	TSK
CANADA	BASIN	BB201	76	33.53	147	54.05	75	7	3	18	184	X	X	X	TSK
CANADA	BASIN	BB202	76	33.83	147	44.38	75	7	4	4	188	X	X	X	TSK
CANADA	BASIN	BB203	76	31.74	147	39.40	75	7	4	13	189	X	X	X	TSK
CANADA	BASIN	BB204	76	30.15	147	27.62	75	7	5		188	X	X	X	TSK
CANADA	BASIN	BB205	76	29.94	147	25.91	75	7	5	3	188	X	X	X	TSK
CANADA	BASIN	BB206	76	29.14	147	19.99	75	7	5	9	40	X	X	X	TSK
CANADA	BASIN	BB207	76	28.56	147	18.75	75	7	5	11	40	X	X	X	TSK
CANADA	BASIN	BB208	76	27.91	147	18.39	75	7	5	13	40	X	X	X	TSK
CANADA	BASIN	BB209	76	27.42	147	17.39	75	7	5	15	40	X	X	X	TSK
CANADA	BASIN	BB210	76	26.98	147	15.37	75	7	5	17	184	X	X	X	TSK
CANADA	BASIN	BB211	76	25.56	147	9.74	75	7	5	21	40	X	X	X	TSK
CANADA	BASIN	BB212	76	24.10	147	1.29	75	7	6	3	200	X	X	X	TSK
CANADA	BASIN	BB213	76	23.46	146	57.43	75	7	6	5	200	X	X	X	TSK
CANADA	BASIN	BB214	76	22.58	146	53.29	75	7	6	9	200	X	X	X	TSK
CANADA	BASIN	BB215	76	22.34	146	51.76	75	7	6	11	200	X	X	X	TSK
CANADA	BASIN	BB216	76	23.57	146	46.08	75	7	7		200	X	X	X	TSK
CANADA	BASIN	BB217	76	24.71	146	35.99	75	7	7	9	200	X	X	X	TSK
CANADA	BASIN	BB218	76	24.65	146	33.58	75	7	7	11	200	X	X	X	TSK
CANADA	BASIN	BB219	76	24.66	146	30.76	75	7	7	13	200	X	X	X	TSK
CANADA	BASIN	BB220	76	24.28	146	24.37	75	7	7	16	166	X	X	X	TSK
CANADA	BASIN	BB221	76	23.61	146	19.63	75	7	7	19	174	X	X	X	TSK
CANADA	BASIN	BB222	76	21.86	146	15.13	75	7	8	1	188	X	X	X	TSK
CANADA	BASIN	BB223	76	21.64	146	14.05	75	7	8	4	200	X	X	X	TSK
CANADA	BASIN	BB224	76	21.59	146	13.70	75	7	8	4	200	X	X	X	TSK
CANADA	BASIN	BB225	76	20.89	146	6.03	75	7	9	5	190	X	X	X	TSK
CANADA	BASIN	BB226	76	23.17	146	0.43	75	7	9	16	187	X	X	X	TSK
CANADA	BASIN	BB227	76	24.29	145	52.54	75	7	9	22	178	X	X	X	TSK
CANADA	BASIN	BB228	76	23.41	145	40.09	75	7	10	3	200	X	X	X	TSK
CANADA	BASIN	BB229	76	23.23	145	38.56	75	7	10	4	200	X	X	X	TSK
CANADA	BASIN	BB230	76	22.88	145	36.24	75	7	10	5	164	X	X	X	TSK
CANADA	BASIN	BB231	76	20.66	145	22.06	75	7	10	15	186	X	X	X	TSK
CANADA	BASIN	BB232	76	19.77	145	18.38	75	7	10	21	200	X	X	X	TSK
CANADA	BASIN	BB233	76	18.60	145	6.13	75	7	12	7	200	X	X	X	TSK
CANADA	BASIN	BB234	76	19.29	145	6.41	75	7	12	15	200	X	X	X	TSK
CANADA	BASIN	BB235	76	19.83	145	8.81	75	7	12	23	200	X	X	X	TSK
CANADA	BASIN	BB236	76	20.25	145	9.75	75	7	13	5	200	X	X	X	TSK
CANADA	BASIN	BB237	76	20.93	145	11.75	75	7	13	16	200	X	X	X	TSK
CANADA	BASIN	BB238	76	21.22	145	11.26	75	7	13	23	200	X	X	X	TSK
CANADA	BASIN	BB239	76	21.28	145	11.05	75	7	14	5	200	X	X	X	TSK
CANADA	BASIN	BB240	76	21.02	145	10.01	75	7	14	16	200	X	X	X	TSK
CANADA	BASIN	BB241	76	20.60	145	10.37	75	7	14	23	200	X	X	X	TSK
CANADA	BASIN	BB242	76	19.39	145	13.95	75	7	15	16	191	X	X	X	TSK
CANADA	BASIN	BB243	76	18.68	145	15.11	75	7	15	22	200	X	X	X	TSK
CANADA	BASIN	BB244	76	17.28	145	12.95	75	7	16	5	190	X	X	X	TSK
CANADA	BASIN	BB245	76	17.11	145	12.86	75	7	16	6	*	X	X	X	TSK
CANADA	BASIN	BB246	76	13.75	145	8.55	75	7	16	19	142	X	X	X	TSK
CANADA	BASIN	BB247	76	13.05	145	8.73	75	7	16	22	190	X	X	X	TSK
CANADA	BASIN	BB248	76	12.92	145	8.56	75	7	16	23	*	X	X	X	TSK
CANADA	BASIN	BB249	76	12.54	145	7.88	75	7	17	1	100	X	X	X	TSK
CANADA	BASIN	BB250	76	11.80	145	7.34	75	7	17	5	191	X	X	X	TSK
CANADA	BASIN	BB251	76	10.81	145	4.34	75	7	17	15	190	X	X	X	TSK
CANADA	BASIN	BB252	76	10.08	145	2.89	75	7	17	22	191	X	X	X	TSK
CANADA	BASIN	BB253	76	9.37	145	0.79	75	7	18	5	190	X	X	X	TSK
CANADA	BASIN	BB254	76	7.76	144	59.74	75	7	18	15	188	X	X	X	TSK
CANADA	BASIN	BB255	76	5.61	144	58.52	75	7	18	22	188	X	X	X	TSK
CANADA	BASIN	BB256	76	3.93	144	58.76	75	7	19	5	187	X	X	X	TSK

CANADA	BASIN	BB257	76	3.71	144	58.89	75	7	19	6	*	X	X	X	TSK
CANADA	BASIN	BB258	76	0.64	145	0.63	75	7	19	23	200	X	X	X	TSK
CANADA	BASIN	BB259	75	59.75	144	59.30	75	7	20	5	190	X	X	X	TSK
CANADA	BASIN	BB260	75	59.60	144	59.47	75	7	20	6	*	X	X	X	TSK
CANADA	BASIN	BB261	75	57.95	144	56.73	75	7	20	15	200	X	X	X	TSK
CANADA	BASIN	BB262	75	55.16	144	53.73	75	7	20	22	200	X	X	X	TSK
CANADA	BASIN	BB263	75	52.87	144	54.36	75	7	21	5	200	X	X	X	TSK
CANADA	BASIN	BB264	75	50.03	144	58.17	75	7	21	16	200	X	X	X	TSK
CANADA	BASIN	BB265	75	48.21	144	59.51	75	7	21	22	200	X	X	X	TSK
CANADA	BASIN	BB266	75	46.78	145	0.55	75	7	22	5	200	X	X	X	TSK
CANADA	BASIN	BB267	75	44.87	145	2.53	75	7	22	15	185	X	X	X	TSK
CANADA	BASIN	BB268	75	43.72	145	4.04	75	7	22	22	186	X	X	X	TSK
CANADA	BASIN	BB269	75	43.14	145	6.13	75	7	23	5	186	X	X	X	TSK
CANADA	BASIN	BB270	75	42.50	145	8.49	75	7	23	15	200	X	X	X	TSK
CANADA	BASIN	BB271	75	41.62	145	9.11	75	7	24	5	200	X	X	X	TSK
CANADA	BASIN	BB272	75	41.63	145	10.71	75	7	24	15	200	X	X	X	TSK
CANADA	BASIN	BB273	75	41.52	145	16.78	75	7	25	5	186	X	X	X	TSK
CANADA	BASIN	BB274	75	40.79	145	26.44	75	7	25	22	186	X	X	X	TSK
CANADA	BASIN	BB275	75	39.80	145	28.76	75	7	26	5	190	X	X	X	TSK
CANADA	BASIN	BB276	75	37.92	145	28.56	75	7	26	16	192	X	X	X	TSK
CANADA	BASIN	BB277	75	35.49	145	23.71	75	7	27	5	200	X	X	X	TSK
CANADA	BASIN	BB278	75	34.12	145	20.65	75	7	27	16	191	X	X	X	TSK
CANADA	BASIN	BB279	75	31.13	145	14.96	75	7	28	15	200	X	X	X	TSK
CANADA	BASIN	BB280	75	26.91	144	50.09	75	7	29	16	180	X	X	X	TSK
CANADA	BASIN	BB281	75	19.04	144	32.75	75	7	30	15	183	X	X	X	TSK
CANADA	BASIN	BB282	75	13.08	144	11.64	75	7	31	16	161	X	X	X	TSK
CANADA	BASIN	BB283	75	10.47	143	58.[illegible]	75	8	1	5	137	X	X	X	TSK
CANADA	BASIN	BB284	75	8.19	143	50.31	75	8	1	16	182	X	X	X	TSK
CANADA	BASIN	BB285	75	5.64	143	43.99	75	8	2	5	190	X	X	X	TSK
CANADA	BASIN	BB286	75	4.47	143	39.88	75	8	2	16	191	X	X	X	TSK
CANADA	BASIN	BB287	75	2.67	143	33.49	75	8	3	5	190	X	X	X	TSK
CANADA	BASIN	BB288	75	2.13	143	29.06	75	8	3	16	187	X	X	X	TSK
CANADA	BASIN	BB289	75	2.10	143	28.77	75	8	3	17	*	X	X	X	TSK
CANADA	BASIN	BB290	75	1.09	143	21.03	75	8	4	5	188	X	X	X	TSK
CANADA	BASIN	BB291	75	1.33	143	15.05	75	8	4	16	182	X	X	X	TSK
CANADA	BASIN	BB292	75	3.65	142	57.08	75	8	5	5	200	X	X	X	TSK
CANADA	BASIN	BB293	75	4.16	142	47.78	75	8	5	16	200	X	X	X	TSK
CANADA	BASIN	BB294	75	3.97	142	47.41	75	8	5	17	*	X	X	X	TSK
CANADA	BASIN	BB295	75	1.81	142	44.52	75	8	6	5	190	X	X	X	TSK
CANADA	BASIN	BB296	75	1.70	142	44.19	75	8	6	5	*	X	X	X	TSK
CANADA	BASIN	BB297	74	59.11	142	36.52	75	8	7	16	190	X	X	X	TSK
CANADA	BASIN	BB298	74	59.06	142	36.22	75	8	7	17	93	X	X	X	TSK
CANADA	BASIN	BB299	74	59.05	142	36.15	75	8	7	17	*	X	X	X	TSK
CANADA	BASIN	BB300	74	58.59	142	33.02	75	8	8	4	190	X	X	X	TSK
CANADA	BASIN	BB301	74	58.62	142	32.65	75	8	8	5	*	X	X	X	TSK
CANADA	BASIN	BB302	74	58.82	142	26.28	75	8	8	16	200	X	X	X	TSK
CANADA	BASIN	BB303	74	59.14	142	19.02	75	8	8	22	174	X	X	X	TSK
CANADA	BASIN	BB304	74	57.66	142	2.03	75	8	9	5	127	X	X	X	TSK
CANADA	BASIN	BB305	74	55.55	142	1.06	75	8	9	10	188	X	X	X	TSK
CANADA	BASIN	BB306	74	55.77	141	59.93	75	8	9	12	186	X	X	X	TSK
CANADA	BASIN	BB307	74	56.20	141	55.64	75	8	9	14	129	X	X	X	TSK
CANADA	BASIN	BB308	74	55.82	141	49.42	75	8	9	16	123	X	X	X	TSK
CANADA	BASIN	BB309	74	53.97	141	41.49	75	8	9	22	183	X	X	X	TSK
CANADA	BASIN	BB310	74	53.82	141	41.06	75	8	10		177	X	X	X	TSK
CANADA	BASIN	BB311	74	53.63	141	39.49	75	8	10	2	148	X	X	X	TSK
CANADA	BASIN	BB312	74	52.44	141	34.77	75	8	10	5	133	X	X	X	TSK
CANADA	BASIN	BB313	74	50.17	141	31.41	75	8	10	8	164	X	X	X	TSK
CANADA	BASIN	BB314	74	48.96	141	32.84	75	8	10	11	200	X	X	X	TSK
CANADA	BASIN	BB315	74	46.43	141	25.43	75	8	10	23	178	X	X	X	TSK
CANADA	BASIN	BB316	74	46.22	141	23.02	75	8	11	5	184	X	X	X	TSK
CANADA	BASIN	BB317	74	44.05	141	18.31	75	8	11	16	177	X	X	X	TSK
CANADA	BASIN	BB318	74	41.92	141	7.51	75	8	12	5	188	X	X	X	TSK
CANADA	BASIN	BB319	74	41.94	141	6.66	75	8	12	5	188	X	X	X	TSK
CANADA	BASIN	BB320	74	41.81	141	4.40	75	8	12	7	*	X	X	X	TSK
CANADA	BASIN	BB321	74	40.56	140	57.47	75	8	12	17	188	X	X	X	TSK
CANADA	BASIN	BB322	74	40.61	140	56.66	75	8	12	17	*	X	X	X	TSK
CANADA	BASIN	BB323	74	40.99	140	49.98	75	8	13	5	200	X	X	X	TSK
CANADA	BASIN	BB324	74	43.51	140	44.75	75	8	13	16	154	X	X	X	TSK
CANADA	BASIN	BB325	74	43.22	140	26.81	75	8	14	5	182	X	X	X	TSK
CANADA	BASIN	BB326	74	41.38	140	17.31	75	8	14	16	200	X	X	X	TSK
CANADA	BASIN	BB327	74	41.62	140	12.89	75	8	15	6	190	X	X	X	TSK
CANADA	BASIN	BB328	74	42.77	140	14.93	75	8	15	16	190	X	X	X	TSK
CANADA	BASIN	BB329	74	43.73	140	14.15	75	8	16	5	190	X	X	X	TSK
CANADA	BASIN	BB330	74	43.99	140	13.33	75	8	16	16	191	X	X	X	TSK
CANADA	BASIN	BB331	74	41.63	140	16.91	75	8	17	5	184	X	X	X	TSK
CANADA	BASIN	BB332	74	40.09	140	24.04	75	8	17	17	189	X	X	X	TSK
CANADA	BASIN	BB333	74	39.60	140	29.42	75	8	18	5	176	X	X	X	TSK
CANADA	BASIN	BB334	74	39.18	140	32.28	75	8	18	16	190	X	X	X	TSK
CANADA	BASIN	BB335	74	38.83	140	41.66	75	8	19	5	200	X	X	X	TSK
CANADA	BASIN	BB336	74	38.82	140	47.65	75	8	19	16	190	X	X	X	TSK
CANADA	BASIN	BB337	74	39.90	141	1.59	75	8	20	5	190	X	X	X	TSK
CANADA	BASIN	BB338	74	40.18	141	13.70	75	8	20	16	190	X	X	X	TSK
CANADA	BASIN	BB339	74	40.43	141	23.45	75	8	21	5	195	X	X	X	TSK

CANADA	BASIN	BB340	74	40.35	141	26.39	75	8	21	16	188	X	X	X	TSK
CANADA	BASIN	BB341	74	38.77	141	25.65	75	8	22	5	189	X	X	X	TSK
CANADA	BASIN	BB342	74	37.47	141	22.59	75	8	22	16	188	X	X	X	TSK
CANADA	BASIN	BB343	74	35.11	141	16.75	75	8	23	5	187	X	X	X	TSK
CANADA	BASIN	BB344	74	32.82	141	13.27	75	8	23	16	187	X	X	X	TSK
CANADA	BASIN	BB345	74	31.63	141	11.58	75	8	24	5	188	X	X	X	TSK
CANADA	BASIN	BB346	74	31.34	141	9.14	75	8	24	17	188	X	X	X	TSK
CANADA	BASIN	BB347	74	30.70	140	49.28	75	8	25	16	200	X	X	X	TSK
CANADA	BASIN	BB348	74	30.71	140	48.80	75	8	25	17	200	X	X	X	TSK
CANADA	BASIN	BB349	74	33.44	140	43.34	75	8	26	17	188	X	X	X	TSK
CANADA	BASIN	BB350	74	25.20	140	3.64	75	8	28	6	183	X	X	X	TSK
CANADA	BASIN	BB351	74	21.59	139	50.35	75	8	28	16	189	X	X	X	TSK
CANADA	BASIN	BB352	74	22.86	139	42.25	75	8	29	5	169	X	X	X	TSK
CANADA	BASIN	BB353	74	18.91	139	34.91	75	8	29	19	190	X	X	X	TSK
CANADA	BASIN	BB354	74	15.82	139	29.37	75	8	30	5	183	X	X	X	TSK
CANADA	BASIN	BB355	74	13.43	139	27.05	75	8	30	17	157	X	X	X	TSK
CANADA	BASIN	BB356	74	11.72	139	26.30	75	8	31	5	170	X	X	X	TSK
CANADA	BASIN	BB357	74	10.17	139	25.27	75	8	31	17	138	X	X	X	TSK
CANADA	BASIN	BB358	74	9.73	139	26.54	75	8	31	19	180	X	X	X	TSK
CANADA	BASIN	BB359	74	9.64	139	25.95	75	8	31	22	182	X	X	X	TSK
CANADA	BASIN	BB360	74	9.23	139	21.94	75	9	1	1	128	X	X	X	TSK
CANADA	BASIN	BB361	74	8.18	139	18.37	75	9	1	4	131	X	X	X	TSK
CANADA	BASIN	BB362	74	7.15	139	17.09	75	9	1	7	200	X	X	X	TSK
CANADA	BASIN	BB363	74	6.51	139	15.85	75	9	1	10	169	X	X	X	TSK
CANADA	BASIN	BB364	74	5.79	139	12.88	75	9	1	13	148	X	X	X	TSK
CANADA	BASIN	BB365	74	4.66	139	9.13	75	9	1	17	166	X	X	X	TSK
CANADA	BASIN	BB366	74	3.81	139	7.81	75	9	1	19	183	X	X	X	TSK
CANADA	BASIN	BB367	74	3.08	139	7.34	75	9	1	22	189	X	X	X	TSK
CANADA	BASIN	BB368	74	2.11	139	5.78	75	9	2	4	187	X	X	X	TSK
CANADA	BASIN	BB369	74	1.59	139	6.21	75	9	2	7	189	X	X	X	TSK
CANADA	BASIN	BB370	74	1.08	139	8.00	75	9	2	13	189	X	X	X	TSK
CANADA	BASIN	BB371	74	0.86	139	7.91	75	9	2	16	189	X	X	X	TSK
CANADA	BASIN	BB372	74	0.37	139	9.07	75	9	2	22	189	X	X	X	TSK
CANADA	BASIN	BB373	74	0.56	139	10.46	75	9	3	17	190	X	X	X	TSK
CANADA	BASIN	BB374	74	1.35	139	4.85	75	9	4	17	189	X	X	X	TSK
CANADA	BASIN	BB375	74	2.23	139	5.65	75	9	5	5	189	X	X	X	TSK
CANADA	BASIN	BB376	73	59.66	139	4.08	75	9	5	16	190	X	X	X	TSK
CANADA	BASIN	BB377	73	58.77	139	8.55	75	9	6	5	200	X	X	X	TSK
CANADA	BASIN	BB378	73	58.51	139	15.27	75	9	6	17	200	X	X	X	TSK
CANADA	BASIN	BB379	73	57.82	139	20.98	75	9	7	5	200	X	X	X	TSK
CANADA	BASIN	BB380	73	57.33	139	22.48	75	9	7	17	200	X	X	X	TSK
CANADA	BASIN	BB381	73	56.34	139	18.03	75	9	8	5	187	X	X	X	TSK
CANADA	BASIN	BB382	73	55.47	139	7.10	75	9	8	17	184	X	X	X	TSK
CANADA	BASIN	BB383	73	55.01	138	23.02	75	9	10	5	186	X	X	X	TSK
CANADA	BASIN	BB384	73	53.64	138	13.15	75	9	10	17	188	X	X	X	TSK
CANADA	BASIN	BB385	73	53.44	138	4.04	75	9	11	5	188	X	X	X	TSK
CANADA	BASIN	BB386	73	54.23	137	52.56	75	9	11	18	188	X	X	X	TSK
CANADA	BASIN	BB387	73	53.53	137	43.58	75	9	12	5	200	X	X	X	TSK
CANADA	BASIN	BB388	73	54.17	137	33.38	75	9	12	16	189	X	X	X	TSK
CANADA	BASIN	BB389	73	54.96	137	17.94	75	9	13	5	188	X	X	X	TSK
CANADA	BASIN	BB390	73	53.52	137	14.26	75	9	13	17	188	X	X	X	TSK
CANADA	BASIN	BB391	73	53.00	137	9.47	75	9	14	5	188	X	X	X	TSK
CANADA	BASIN	BB392	73	51.84	137	0.68	75	9	14	17	187	X	X	X	TSK
CANADA	BASIN	BB393	73	51.00	137	6.10	75	9	15	5	187	X	X	X	TSK
CANADA	BASIN	BB394	73	51.63	137	11.42	75	9	15	17	189	X	X	X	TSK
CANADA	BASIN	BB395	73	52.65	137	17.09	75	9	16	5	188	X	X	X	TSK
CANADA	BASIN	BB396	73	53.25	137	20.60	75	9	16	17	188	X	X	X	TSK
CANADA	BASIN	BB397	73	54.03	137	23.99	75	9	17	5	200	X	X	X	TSK
CANADA	BASIN	BB398	73	55.69	137	24.68	75	9	17	18	187	X	X	X	TSK
CANADA	BASIN	BB399	73	58.69	137	19.71	75	9	18	5	184	X	X	X	TSK
CANADA	BASIN	BB400	73	58.17	137	18.04	75	9	18	17	188	X	X	X	TSK
CANADA	BASIN	BB401	73	56.12	137	25.04	75	9	19	5	188	X	X	X	TSK
CANADA	BASIN	BB402	73	54.92	137	30.58	75	9	19	12	189	X	X	X	TSK
CANADA	BASIN	BB403	73	53.82	137	41.72	75	9	20	5	188	X	X	X	TSK
CANADA	BASIN	BB404	73	51.84	137	38.93	75	9	20	17	185	X	X	X	TSK
CANADA	BASIN	BB405	73	52.51	137	29.35	75	9	21	5	172	X	X	X	TSK
CANADA	BASIN	BB406	73	51.82	137	7.12	75	9	21	18	173	X	X	X	TSK
CANADA	BASIN	BB407	73	49.35	136	52.75	75	9	22	5	200	X	X	X	TSK
CANADA	BASIN	BB408	73	48.33	136	47.72	75	9	22	18	190	X	X	X	TSK
CANADA	BASIN	BB409	73	47.50	136	53.43	75	9	23	4	166	X	X	X	TSK
CANADA	BASIN	BB410	73	45.99	137	3.62	75	9	23	17	186	X	X	X	TSK
CANADA	BASIN	BB411	73	43.99	137	0.89	75	9	24	5	195	X	X	X	TSK
CANADA	BASIN	BB412	73	41.38	136	47.42	75	9	24	18	186	X	X	X	TSK
CANADA	BASIN	BB413	73	38.40	136	35.53	75	9	25	5	194	X	X	X	TSK
CANADA	BASIN	BB414	73	35.57	136	36.96	75	9	25	18	186	X	X	X	TSK
CANADA	BASIN	BB415	73	33.09	136	38.49	75	9	26	5	192	X	X	X	TSK
CANADA	BASIN	BB416	73	31.46	136	36.01	75	9	26	19	193	X	X	X	TSK
CANADA	BASIN	BB417	73	29.84	136	28.79	75	9	27	18	192	X	X	X	TSK
CANADA	BASIN	BB418	73	30.94	136	31.74	75	9	28	4	200	X	X	X	TSK
CANADA	BASIN	BB419	73	28.83	136	24.02	75	9	28	17	200	X	X	X	TSK
CANADA	BASIN	BB420	73	28.48	136	24.41	75	9	29	4	200	X	X	X	TSK
CANADA	BASIN	BB421	73	28.44	136	24.52	75	9	29	17	200	X	X	X	TSK
CANADA	BASIN	BB422	73	29.01	136	25.16	75	9	30	5	200	X	X	X	TSK

CANADA BASIN	BB423	73	30.38	136	34.61	75	9	30	17	200	X	X	X	TSK
CANADA BASIN	BB424	73	30.51	136	36.11	75	9	30	18	194	X	X	X	TSK
CANADA BASIN	BB425	73	31.31	136	44.55	75	10	1	5	188	X	X	X	TSK

12. INACCESSIBLE DATA SETS

12.1 OCEANOGRAPHIC DATA COLLECTED USING SUBMARINES

In 1931, the Nautilus became the first submarine to attempt to enter the Arctic Ocean. Lack of upward-scanning sonar restricted penetration to only a few yards under the ice (Sverdrup and Soule, 1933). The capability for conducting standard oceanographic observations by lowering a cable through the hull from a pressurized compartment was demonstrated at this early date.

Following World War II, renewed efforts were made to adapt submarines for use under sea ice by the U.S. Navy Electronics Laboratory. New developments in sonar techniques lead to the safe operation of the U.S.S. Bearfish and U.S.S. Carp under the ice in the Chukchi Sea in 1947 and 1948. With the advent of nuclear-powered submarines in the 1950's, submarine travel for extended distances became feasible without the need to surface. In 1957, the nuclear submarine U.S.S. Nautilus spent 5.5 days under the ice in the Canada Basin, reaching the latitude 87°N. This same submarine crossed the Arctic Ocean, beginning at Bering Strait and passing over the North Pole in August 1958. In both of these cruises, scientists from the U.S. Naval Electronics Laboratory were onboard carrying out unspecified scientific investigations (Polar Record, Vol. 9, p. 143, 1958; Polar Record, Vol. 9, p. 340, 1959).

U.S. Navy submarine operations in the Arctic Ocean as described by Lyon (1963; 1984) are summarized in Figure 10. Measurements of ice thickness, water temperature, electrical conductivity and optical transparency as well as ambient light, earth's gravity, plankton population and bathymetry were routinely measured during these cruises by instruments carried on or within the hull. Lyon (1963) remarked on differences in the oceanographic capabilities of diesel- and nuclear-powered submarines:

> "Conventional, deep oceanographic stations were taken during Arctic cruises of diesel-battery submarines by overside casts using a winch mounted in the forward torpedo room (Plate III). However, stations have not been taken during cruises by nuclear submarines because: (a) overside rigging is highly inconvenient and impossible under winter conditions; (b) time for stations is not compatible with need for maximum areal coverage in available time, and (c) no mercurial devices are permitted on a nuclear submarine because of possible contamination of ship's atmosphere by accidental breakage. Sverdrup demonstrated in 1931 the feasibility of using an air lock and winch for lowering an oceanographic cast from within the submarine. For the submarine cruises to date, the high cost of modifying the hull to accommodate an air-lock system was not justified, but possibly should be considered in long-term programs. However, for taking oceanographic stations we intend to use a precision electrical sensing element lowered by a winch mounted in the submarine's superstructure and controlled from within the hull."

The extent to which the recommendations were subsequently implemented in terms of using an air lock and winch are not known.

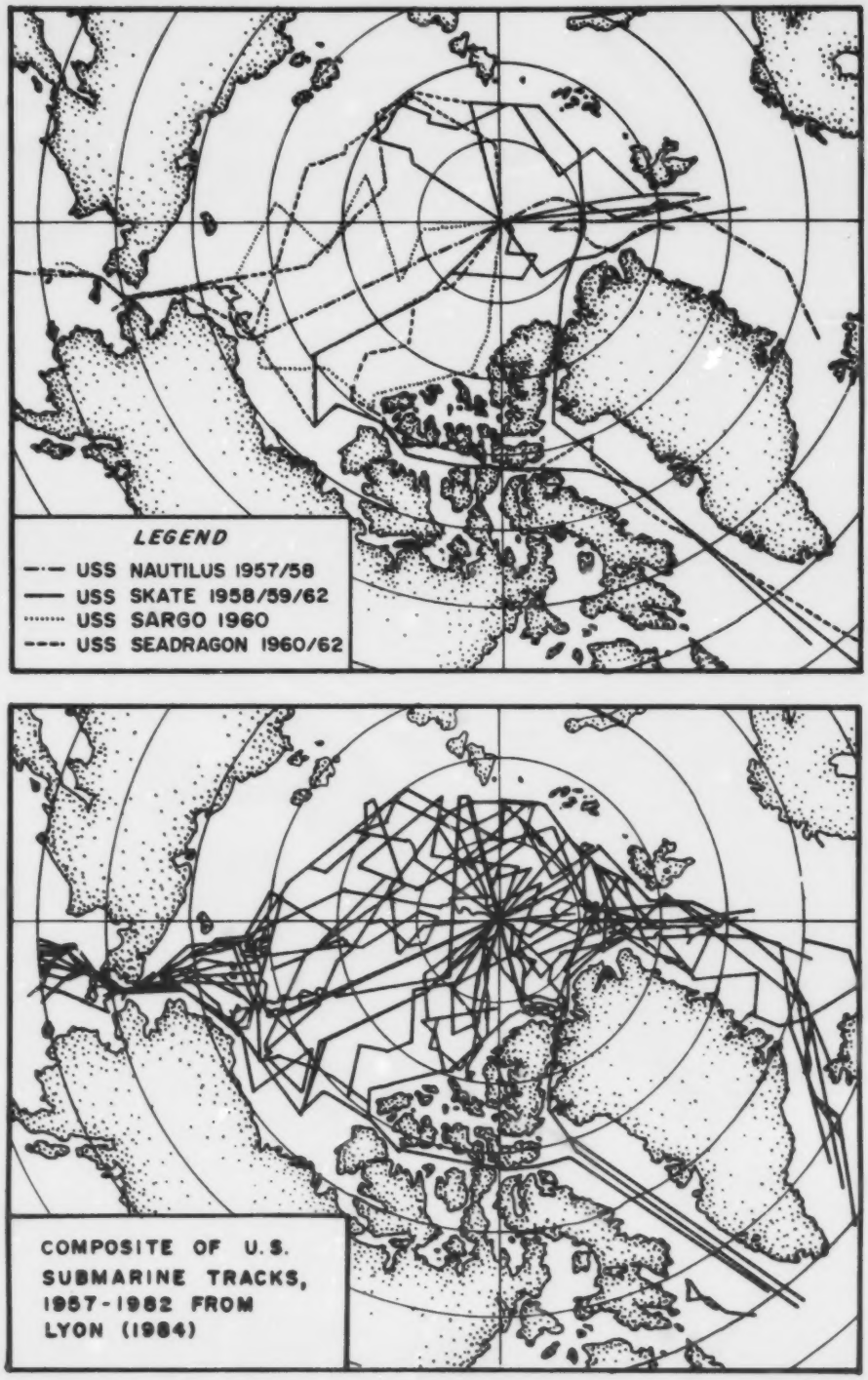

Figure 10: Maps illustrating (upper) the tracks of the under-ice cruises of USS Nautilus, Skate, Sargo and Seadragon, 1957-1962 (from Lyon, 1963) and (lower) a composite of U.S. submarine tracks from 1957 to 1982 (Lyon, 1984).

Since the time of Lyon's (1963) paper, the waters of the Arctic Ocean have been routinely patrolled by U.S. submarines. A large amount of oceanographic data has likely been collected during these voyages, but information concerning these data is sparse due to the classified nature of the submarine operations.

The primary navigation system used by U.S. submarines operating in the Arctic is an inertial navigational system supplemented by observations obtained from navigation satellites (Lyon, 1984). However, the positional accuracy may be poor, particularly for data collected in the 1950's and 1960's. Based on comparisons of bathymetric features measured from submarines and more accurate measurements obtained from the LOREX experiment 1979, Weber (1983) notes apparent errors of up to 40 km in the Skate and Nautilus tracks of 1957-1962. Beal (1983) confirms that large positional errors could occur due to the reliance on the Ship's Inertial Navigation System. According to Beal (1983), this situation has persisted "until recently, since availability of nearly continuous satellite navigation".

A literature search, including computer-based scanning of automated data bases (Oceanic Abstracts, EI Engineering Meetings, Compendex, National Technical Information Service and Enviroline) yielded only a few reported instances of oceanographic data collected by submarine in the Arctic Ocean:

- Freidman et al. (1961) reports on the deuterium content of surface water samples collected near the North Pole in 1958, from the submarine U.S.S. Skate (data set 58-0013).

- Grice (1962) describes plankton populations from data collected from the U.S.S. Seadragon cruise to the North Pole in 1960.

- Wadhams (1977) describes sonar measurements of ice keel depths obtained from the nuclear submarine HMS Sovereign obtained during a cruise to the North Pole in October, 1976. On this same submarine cruise, sound velocimeter measurements were used to compute temperature records; an analysis of these data in the East Greenland Sea Polar Front is presented in Wadhams et al. (1979).

- LeShack (1981) presents an analysis of under-ice roughness with satellite and airborne thermal infrared data collected in the Beaufort Sea (February 1960 cruise of the U.S.S. Sargo and April 1976 cruise of the U.S.S. Gunard) as well as the above-mentioned 1976 data from the HMS Sovereign.

- Ostlund (1982) reports on water samples collected in 1978 from the U.S.S. Pintado to compute the residence time of the freshwater component in the Arctic Ocean (data set 78-0044).

These papers are believed to represent only a very small fraction of oceanographic data collected from submarines. The great bulk of these data are not presently available due to the reluctance of the military agencies to release information concerning submarine patrol patterns. During preparation of this report, a request for more information was sent to the Commander of the U.S. Pacific Fleet; the response was to use proper government channels.

Subsequently, a request for this information was initiated through the Marine Environmental Data Services Branch, Department of Fisheries and Oceans, Canada.

The Soviet Union is also believed to conduct submarine patrols under the sea ice of the Arctic Ocean. During the summer of 1962, the Soviet atomic submarine Leninskiy Komsomol reached the North Pole (Smith, 1971). Due to the military nature of the submarine operations, no information could be located as to the extent, if any, of oceanographic data collected from Soviet submarines.

12.2 SOVIET OCEANOGRAPHIC STUDIES

The Soviet Union has been actively involved in oceanographic data collection in the Arctic Ocean from the 1930's to the present. Soviet air-supported drifting ice station operations began in 1937 when an ice station was occupied for nine months (data set 37-0006, Papanin, 1946). This station was later called Severnyj Polyus (North Pole) 1. However, the large degree of sea support for the drifting ice station program was a factor in several vessels becoming trapped in the ice north of Siberia; as a result, enthusiasm for further ice station activity ebbed.

The next North Pole station, NP-2, was established April 1950 (Somov, 1955), and was the first to operate year round. Studies included oceanography, meteorology, sediment collection, as well as magnetic and gravity observations and ice studies.

In 1954, stations NP-3 and NP-4 were established, and from that time to the present at least one North Pole station has been in operation (Table 2). Duration of occupation has varied from several months to several years. In most instance, the stations have been located on large sea-ice floes; however, in more recent years, a greater tendency to operate from the ice islands (e.g. NP-22, NP-23 and NP-24) has been noted.

Other types of data collection programs evolved from the drifting ice station program, as a result of the demonstrated capabilities to use aircraft in the Arctic on a large scale in the support of the NP ice stations. In 1941, stations on the sea ice were occupied by the Soviet-All-Union Arctic Institute (VAI), using a four engine N-169 aircraft. Station occupations lasted 4-5 days and measurements included depth, temperature, salinity, weather, gravity and magnetism.

In 1948, VAI began a program whereby aircraft-supported stations were occupied for about six weeks each spring, and often for a shorter fall period. These yearly aircraft landings are called the Sever (North)-Series. Figure 11 (Laktionov and Shamont'ev, 1957) illustrates the extent of data coverage during the period 1937-1956. These aircraft landings, as well as the drifting NP stations, have continued through to the present. The data collected from these stations beginning in 1974-1975 were part of the Polex North program (National Academy of Sciences, 1974).

Since 1953, the Soviet Arctic and Antarctic Research Institute has carried out a program of meteorological and ice drift data collection from automatic stations located on the pack ice. These data collection platforms, known as DARMS (Drifting Automatic Radio-Meteorological Station) obtain

TABLE 2: SOVIET DRIFTING ICE STATIONS
(Gordienko and Laktionov, 1960; Gordienko, 1962; Smith, 1971; notes published in Polar Record, 1950-1982)

Data Set ID	Station	Dates of Operation	Position at Establishment	Position at Abandonment
37-0006	NP-1	21 May, 1937 19 Feb, 1938	89°25'N 78°40'W	70°48'N 19°48'W
50-0007	NP-2	31 Mar, 1950 9 Apr, 1951	76°03'N 166°30'W	81°45'N 162°20'W
54-0014	NP-3	9 Apr, 1954 20 Apr, 1955	86°N 175°45'W?	86°00'N 31°45'W
54-0015	NP-4	8 Apr, 1954 20 Apr, 1957	75°48'N 178°25'W	85°53'N 0°00'
not in area 7	NP-5	21 Apr, 1955 8 Oct, 1956	82°10'N 156°51'E	85°18'N 63°20'E
56-0013	NP-6	19 Apr, 1956 14 Sep, 1959	74°24'N 177°04'W	82°06'N 3°56'E
57-0013	NP-7	23 Apr, 1957 11 Apr, 1959	82°06'N 164°11'W	85°14'N 33°03'W
59-0015	NP-8	15 Apr, 1959 19 Mar, 1962	76°11'N 164°24'W	83°13'N 132°37'W
60-0014	NP-9	16 Apr, 1960 16 May, 1961	77°15'N 163°35'E	86°36'N 176°00'W
not in area 7	NP-10	17 Oct, 1961 30 Apr, 1964	75°27'N 177°10'E	88°30'N 115°00'E
62-0023	NP-11	17 Apr, 1962 20 Apr, 1963	77°15'N 167°00'W	81°08'N 139°12'W
63-0013	NP-12	1 May, 1963 28 Apr, 1965	76°30'N 165°00'W	81°20'N 146°00'W
64-0015	NP-13	15 Apr, 1964 26 Apr, 1967	73°53'N 166°17'W	87°54'N 3°37'W
65-0017	NP-14	1 May, 1965 6 Feb, 1966	74°43'N 175°05'W	Wrangel Island
66-0019	NP-15	15 Apr, 1966 19 Mar, 1968	78°49'N 168°13'E	85°45'N 10°30'W
68-0021	NP-16	Apr, 1968 Mar, 1972	74°58'N 171°40'W	
not in area 7	NP-17	Apr, 1968 Oct, 1969	80°28'N 165°53'E	86°47'N 24°47'E
not in area 7	NP-18	Oct, 1968 Oct, 1971	74°56'N 165°18'W?	
69-0029	NP-19	11 Nov, 1969 Apr, 1973	NE of 75°34'N 165°W	88°38'N 200°W
70-0028	NP-20	Apr, 1970 May, 1972	75°55'N 180°W	81°42'N 166°W
not in area 7	NP-21	May, 1972 May, 1974	NE of Wrangel Island	
73-0034	NP-22	Sep, 1973 > 1979	76°14'N 168°31'W	
75-0067	NP-23	Dec, 1975 22 Nov, 1978	72°30'N 176°W	~87°36'N 138°W
78-0042 (not in area?)	NP-24	1978 20 Nov, 1980	330 km NW of Wrangel Island	
	NP-25	Apr, 1981 Continuing 1983	500 km NW of Wrangel Island	
?	NP-26	?		

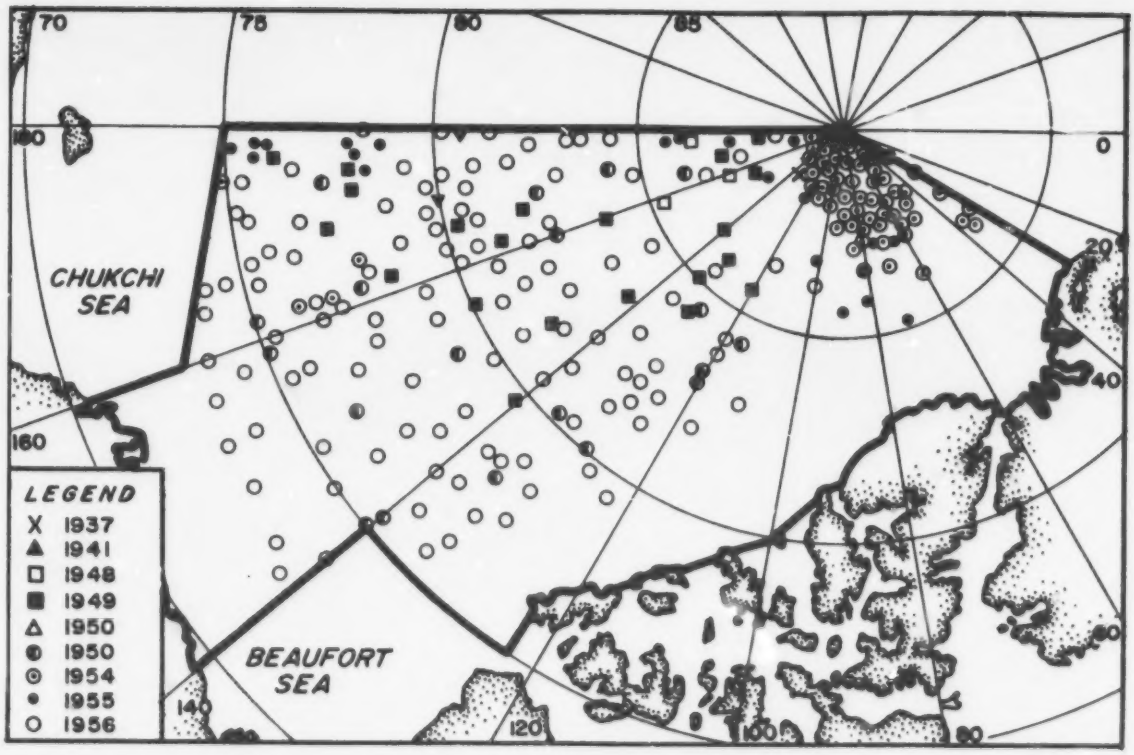

Figure 11: Soviet oceanographic stations occupied using aircraft, 1937 to 1956 (from Lationov and Shamont'ev, 1957).

measurements of air temperature, atmospheric pressure, wind speed and wind direction (Olenicoff, 1971). The data are transmitted to shore stations by radio signals, normally 2-4 times each day. The DARMS signals are received by coastal direction-finding radio stations, which record the meteorological signals, as well as determining station position by simultaneous bearings from two or more shore stations. Between 1953 and 1972, a total of 440 Soviet automatic drifting stations have been deployed in the Arctic.

Beginning in 1972, a new automatic data collection platform was developed containing oceanographic sensors (Olenicoff, 1973). This new platform known as DHARMS (Drifting Automatic Radio-Hydrometeorological Station) includes five new sensors used for measuring water temperature, water salinity, current speed, current direction and ocean depth. In the spring of 1973, three DHARMS units were deployed in the Arctic Basin in addition to 20-25 DARMS. As of 1973 (Olenicoff, 1973), the deployment of ten DHARMS was planned for 1974 as an initial step towards the longer term goal of phasing out all DARMS and replacing them by DHARMS. Unfortunately, more recent information could not be located concerning the use and performance of the DHARMS units.

Sources of Information

The degree of information available for Soviet oceanographic studies is highly variable according to type of activity and the time period in which operations were carried out. Virtually no information could be obtained on Soviet submarine activities due, presumably to the highly classified nature of these operations. On the other hand, a considerable amount of information was available on the very active Soviet research efforts involving drifting ice stations and aircraft-based operations on the sea ice. Comparatively detailed information is available until approximately the time of the International Geophysical Year (IGY 1957-1958) programs involving international scientific cooperation. Unfortunately, since the IGY, the amount of information on Soviet aircraft and drifting ice station activities is considerably reduced and much of the detailed information as to measurement times, locations, types of data collected and methods is sketchy or entirely absent.

In compiling information for this report, a number of useful review articles were located (Treshnikov, 1956; Laktionov and Shamont'ev, 1957; Timofeyev, 1960; Fletcher, 1968; Smith, 1971) which provided an overview of Soviet activities from the first North Pole station (see below) in 1937 to 1956. The best sources of information concerning the times and positions of the establishment and abandonment of drifting ice stations were found in Gordienko and Laktionov, 1960; Gordienko, 1962; Smith, 1971. A valuable supplementary source of information, in this regard, were brief notes appearing regularly in the journal Polar Record, published by the Scott Polar Research Institute, Cambridge University, Cambridge, United Kingdom. Plots of the tracks of each of the drifting stations (up to 1979) were obtained from the Soviet World Ocean Atlas, Vol. 3, Arctic Ocean edited by S.G. Gorshkov (1983). While these track plots are useful since, in some cases, they are the only detailed plot available, the atlas does not provide any details as to specific types of measurements, methodology, sampling rates or times along the track.

Procedures for Identifying and Displaying Soviet Ice Station Data

For most of the Soviet ice station data sets, detailed information as to times and position of individual measurements are not available. MEDS files contained such information for only two ice stations NP-2 (Data set 50-007) and NP-22 (73-0034). Timofeyev (1960) is the best source of station location and time information for the period up to 1959. Other sources of such information include: Nikitin and Dem'yanov (1965) - current data from NP-3, 4 and 5; Legen'kov et al. (1974) - temperature data from NP-19; and Melnikov (1976) - plot of station locations for NP-22.

A large number of scientific papers have been published based on the data collected from Soviet ice stations. For example, Laktionov and Romanovich (1962) list 326 papers, for numerous scientific disciplines, written on ice station and high latitude air expeditions. Generally, these papers are of little help in determining where, when and what was measured because the data used are often not explicitly identified as to measurement times and locations, even in the form of maps or tables.

The station information that has been uncovered is generally reported in Moscow time and longitude °E. Longitudes were converted to °W; however the times were not changed since the time zone used was often unknown. Also, only one data set ID has been assigned per expedition. In view of independent studies conducted using the U.S. ice island T-3 (Figure 8), there may be justification for further breakdown of Soviet ice station activity.

A request for additional information has been sent to World Data Centre-B in Moscow, through MEDS. It is not expected that this will prompt immediate results however. These data are important since many of the stations are near Canadian waters. For example, Weber (1983) states that there is evidence that during the early 1950's the Soviets collected data in the channels of the Queen Elizabeth Islands.

The Soviet data sets have been documented as fully as possible. Even if no details were available, the data sets are entered in Table 1, if it was known or suspected that data were collected within this study area. Also, the NP ice station trajectories, obtained from the Atlas edited by Gorshkov (1983), have been drawn onto the maps. One can generally assume that data were collected somewhere along the course of the plotted trajectory. Similarly, the NORTH-series aircraft operations are listed as entries in Table 1, even though in most instances since 1956, virtually nothing is known as to station locations and times, methods, etc.

12.3 U.S. OIL COMPANY DATA

With the discovery of the very large oil field at Prudhoe Bay in 1968, a very active program of exploratory drilling by oil companies began in the late 1960's. The interest of oil companies in offshore drilling led to a large amount of activity in oceanographic research, required to provide engineering design information and to assess possible environmental impacts of offshore drilling for oil and gas. The resulting oceanographic studies were carried out as:

1) studies sponsored by U.S. federal and state agencies and either carried out by the same agencies or contracted out to consulting companies and university research groups (e.g. Outer Continental Shelf Environmental Assessment Program, OCSEAP);

2) studies sponsored by the oil industry and often contracted out to consulting companies.

For the first category of oceanographic studies, the results are within the public domain, in the form of scientific papers, reports and data files held by the sponsoring and/or collecting organizations, as included in Table 1.

The studies sponsored by the oil industry are not necessarily within the public domain. In many cases, the results have been made public, often as supporting documents in environmental impact studies or through various regulatory hearings (see Table 1). However, some oceanographic studies were identified but information concerning the measurement program was not accessible, as the study was proprietary to the sponsoring oil companies. The primary source of information used in identifying the proprietary oceanographic studies was a document prepared by the Alaska Oil and Gas Association (AOGA, 1983) entitled "A compilation and description of industry research projects in Alaska frontier OCS areas". In this document, a total of 216 projects carried out by the oil industry is briefly described. The description includes the project title, a one-half page presentation of purpose and method, the names of the contractors, and the sponsoring oil companies, title and date of the final report, the cost and the confidentiality status of the results.

For all known oceanographic studies sponsored by oil companies, a request was made to the consulting company for the information required for the data compilation. In most cases, this information was forwarded to us either as tabulated locations and times of oceanographic stations or as a copy of the report. For some projects where the results could not be released by the consulting company without the permission of the sponsoring oil companies, the oil companies were contacted. This resulted in additional detailed information for some data sets. However, for a total of seven data sets, all collected by Oceanographic Services Inc. of Santa Barbara, California, it was not possible to receive the required consent to release information from all of the companies. The response to the requests for information are tabulated in Table 3; in the case of "no response", this was the result of an initial written request and two or three telephone calls. For these particular data sets, an entry is provided in Table 1 and Appendix 1, but there was insufficient information to provide station location plots and listings.

Other oil company data sets are also likely to exist that are unknown to us. Within the project time limitations, we have attempted to identify and obtain as much information as possible, but additional effort may yield more information. There is a need for a better procedure to catalogue the existence of oceanographic studies sponsored by individual oil companies.

TABLE 3: STATUS OF REQUESTS TO FUNDING OIL COMPANIES FOR PERMISSION FOR OSI TO RELEASE INFORMATION ON DATA OSI COLLECTED, AS OF MAY 1984.

Data Set ID / AOGA #		75-0068 / 27	76-0054 / 39	78-0045 / 44	80-0050 / 119	81-0042 / 147	82-0027 / 190	83- / 213
Amoco	Mr. R. Nagel Denver, Colorado	NR	NR	—	NR	NR	—	NR
Arco	Mr. R. Machemeho Dallas, Texas	Y	Y	Y	Y	Y	Y	Y
Chevron	Mr. L. Brooks LaHavre, California	NR	NR	—	NR	NR	NR	NR
Exxon	Mr. J. Bennett Houston, Texas	Y	Y	Y	X	X	X	X
Getty	Mr. E. Lilly Belleair, Texas	—	—	NR	—	—	—	NR
Gulf	Mr. R. King Houston, Texas	Y	Y	Y	—	—	—	Y
Marathon	Mr. J. Saunders Houston, Texas	—	—	Y	—	—	—	NR
Mobil	Mr W. Mitchell Dallas, Texas	NR	NR	NR	—	NR	—	NR
Shell	Mr. P. Arnold Houston, Texas	Y	Y	Y	Y	Y	Y	NR
Sohio-BP	Mr. R. Potter Dallas, Texas	Y	Y	Y	—	—	—	Y

Y Permission for OSI to release information granted
X Permission not granted
— Non-participant, permission not required
NR No response

APPENDIX 1

REMARKS - METHODS, PROBLEMS AND ERRORS BY DATA SET NUMBER

1883-1 International Polar Expedition/Ray (1885)

A tide gauge at Vglaamie, Alaska (near Barrow) recorded water level every half-hour for 112 days, Feb. 26-June 17, 1883. Harris (1911) states the record length to be 104.5 days, Feb. 26-June 10. The gauge consisted of a weight on the bottom with the line coming through a hole in the ice, and over a pulley, so that the counterweight at the surface moved vertically along a graduated scale. As the water level rose or fell, so did the ice platform and thus the weight against the scale. Readings were made to the nearest 0.3 cm (0.01 ft), and the level of high and low water was also noted. Times recorded were "local mean time". The data are tabulated in Ray (1885). Analyses on hourly values were performed at the U.S. Coast and Geodetic Survey Office.

05-0001 Peary Expedition/Harris (1911)

Twenty-nine days of hourly water levels were recorde. at Cape Sheridan (82°27'N, 61°21'W), Nov. 4-Dec. 2, 1905. Analyses were done at the U.S. Coast and Geodetic Survey Office. The change in water level can be measured fairly precisely using a staff (to approx. 1-3 cm); however measurement of the absolute water level depends on the accuracy of the datum. The early explorers probably did not establish any datum.

06-0001 Anglo-American Expedition/Harris (1911)

Fifty-eight days (Oct. 21-Dec. 12, 1906) of hourly water level data were recorded at the south side of Flaxman Island (70°11'W, 145°50'W). Analyses were performed at the U.S. Coast and Geodetic Survey Office.

08-0004 Peary Polar Expedition/Harris (1911)

As part of the Peary Polar Expedition of 1908-1909, hourly water level measurements were taken at several locations along the northern Greenland and Ellesmere Island shores. The purpose was to provide data regarding a possible land mass in the Arctic Ocean. Harris (1911) tabulates the data and discusses the accuracy of the timing. Analyses were made at the U.S. Coast and Geodetic Survey Office:

Cape Sheridan, 82°27'N, 61°21'W, Nov. 13, 1908-May 23, 1909
Cape Columbia, 83°05'N, 69°35'W, Nov. 16-Dec. 14, 1908
Cape Bryant, 82°21'N, 55°30'W, Jan. 15-Feb. 13, 1909
Cape Morris Jesup, approx. 83°37'N, 32°40'W, May 13-23, 1909

The latitude/longitude of the Cape Morris Jesup station was not in Harris (1911) and has been estimated from the GEBCO 5-17 chart (1979).

14-0002 Canadian Arctic Expedition/Dawson (1920)

Tidal data were collected at Collinson, Martin and Demarcation points and Cape Isachsen. Readings were made to typically 0.003 m (0.01 ft). Collinson Point served as headquarters where a large recording tide gauge was used. At the three other sites, 1-4 day records were obtained, and the timing was not as accurate as at Collinson Point. Latitudes/Longitudes were estimated based on the geographic description of the locations.

35-0001 St. Roche/Tully(1952)

T/S data, as well as collections of biological material, were collected by personnel aboard the R.C.M.P. vessel St. Roche while on patrol duty (Tully, 1952). Instruments were supplied by the Pacific Biological Station at Nanaimo. The data and samples were deposited with the Pacific Biological Station in 1938.

Temperatures were measured using reversing thermometers, while salinity was calculated (Knudsen's Tables) on the basis of specific gravities measured by hydrometers. Measurements were made of surface samples only.

37-0001 St. Roche/Tully (1952)

See 35-0001.

37-0005 Northland

The data are on file at MEDS and NODC. However, no supporting documentation has been found. Hufford (1973, p. 2707) performed some analyses on the data, and refers to the vessel as the Northwind, although the NODC file indicates it was the Northland.

37-0006 Ice Island NP-1

The stations appear to be just out of the study area, but are included for the sake of completeness.

In total, 500 water temperature measurements and 300 current measurements were obtained from Ice Island NP-1 (Gordienko, 1962). Generally data from Soviet ice stations are not readily available, nor is information on methods. Timofeyev (1960) tabulates station positions for many of the data between 1937 and 1959. The Soviets have been approached through MEDS for more information. See Section 12.2 for more detail on the inaccessibility of Soviet documentation.

37-0007 Soviet Aircraft Landings on Ice

Aircraft, while supplying the first ice station (later known as NP-1), made several landings on the ice. One of the stations was in the northern sector of this study area. At present, it is not known what observations were made. As Timofeyev (1960) does not include them in his tabulations, it may be that no hydrographic data were collected.

38-0003 Northwind

The data are on file at MEDS and NODC; however no supporting documentation has been found.

41-0001 N-169 Landings

During April, 3 successive flights were made by personnel from the Soviet All-Union Arctic Institute (VAI). The aircraft used was a N-169 based at Wrangel Island. The scientists stayed 4-5 days at each of the three sites (between 78-81°N and 175°E-170°W). They took soundings, and meteorological, gravitational and magnetic observations. Water temperature and salinity were measured (methods as yet unknown) and water and seabed samples were collected (Weber, 1983). This project was the forerunner of the Sever-Series, spring and fall expeditions using aircraft. The Second World War interrupted the project and it was not until 1948 that the flights resumed. Station location information was taken from Timofeyev (1960).

In 1946, Maksimov (1946) studied the tidal temperature and salinity fluctuations obtained during the 1941 expedition and again assumed the existence of shallow water with depth of approx. 1000 m near 81°30'N, 180°W.

45-0001 U.S. Coast and Geodetic Survey

A search of the files of the National Ocean Service (Rockville, Maryland, U.S.A.) indicated that water level data exist for these stations. No supporting documentation has been found. The U.S. Coast and Geodetic Survey, previously the Coast Survey, became the National Ocean Survey in 1970, and then the National Ocean Service in 1982.

47-0002 U.S. Coast and Geodetic Survey

See 45-0001.

48-0006 Northwind

Data are on the NODC system; however no supporting documentation has been found. Hufford (1973) performed some analyses on the data.

48-0007 Somov (1955)/See 41-0001

This was the beginning of the "High-Latitude Air Expeditions", known as the Sever-Series, in which aircraft were used to transport scientists to locations on the ice for short periods. The expeditions covered roughly a six week period in the spring, and sometimes a shorter period in the fall. In 1948, 8 stations were occupied, 3 of which are in the area of this study (one station involved a sounding at 86°26'N, 154°53'E). It was during this survey that the Lomonosov Ridge was discovered. Station location information was extracted from Timofeyev (1960). No supporting documentation has been found.

48-0008 U.S. Coast and Geodetic Survey

See 45-0001.

49-0004 U.S. Coast and Geodetic Survey

The record length is unclear. National Ocean Service files show an installation and removal date of July 17, 1949 and July 15, 1950, respectively. However, their records also indicate only a one-month record is available beginning July 17, 1949.

49-0005 Soviet Aircraft Landings/See 48-0007

Of the 32 ice stations, 23 were in the area of this data compilation (Somov, 1955). Station location information was taken from Timofeyev (1960). Musin (1960) tabulates the data collected from some of the stations.

49-0006 U.S. Navy Electronics Laboratory

Field testing of oceanographic equipment was done at an open lead "in the vicinity of" Point Barrow. Nansen bottles, reversing thermometers and BT's were tested, but no results are reported (U.S. Navy Electronics Laboratory, 1950). Two camps were set up about one mile apart. No exact position or details of the measurements are provided.

50-0001 Burton Island/U.S. Navy H.O. (1954)

As well as the temperature/salinity data, measurement of current velocity and direction were made at several depths using an Ekman meter on Aug. 10-11, 17 and 30-31 off Point Barrow and on Aug. 28 off the Stockton Islands.

50-0007 Ice Station NP-2/Somov (1954-55)

Station positions were determined astronomically. Between Apr. 23, 1950 and Apr. 2, 1951, the following observations were made:

- 17 hydrographic stations
- two 15-day stations for temperature at seven to nine standard depths
- five 1-day stations for salinity at three depths
- two stations for near-surface temperatures (0-10 m)
- one station for complete analyses
- five stations on open water for temperature and salinity of the subsurface layer

Nansen bottles (1.0 and 1.7 litre) were used to collect water samples and reversing thermometers for temperature. Chlorinities were determined at the ice station, except station 2 and 16, which were analyzed at Tiksi Bay and Leningrad respectively.

Current measurements were made at depths of 10, 75, 150 and 1000 m. The ice movement was subtracted out. The meters had rotors and vanes. Rotor revolution was determined by balls in compartments (Ekman-like meters). Currents were also measured using drogue driftmeters. Although these are spot measurements using a profiling current meter, the repeat time was about 3 hours. The result is current data from the four levels, sampled about every 3 hours.

Measurement intervals, start and stop locations, and the nominal position used for plotting are:

Period	Locations Start	Stop	Plot Position
May 3-20, 1950	76°22'N,169°17'W	76°35'N,170°25'W	76°35'N,170°W
July 30-Aug. 15, 1950	78°43'N,169°58'W	79°04'N,166°53'W	79°N,168°W
Oct. 2-Aug.18, 1950	79°06'N,160°12'W	80°10'N,159°04'W	79°30'N,159°30'W
Jan. 9-25, 1951	80°27'N,163°22'W	80°52'N,161°36'W	80°30'N,162°W
Mar. 13-29, 1951	81°36'N,161°07'W	81°24'N,161°00'W	81°30'N,161°W

Occasional measurements were also made at 4, 25 and 50 m depths. Diurnal (2 day) series profiles were also occupied but are not listed here (see Somov, 1954-55, p. 321-401). Bottom currents (approx. 425 m) were also measured every 1-2 hours between July 4-10 and July 29, 1950 (Somov, 1954-55, p. 402, 403), while crossing the Chukchi Plateau. No locations are given; we have used 78°20'N, 167°W based on Fig. 1 of Somov.

Note that times were recorded as Zone II plus 1 hour (Moscow Daylight Saving).

50-0008 Soviet Aircraft Landings/See 48-0007

Station location information was taken from Timofeyev (1960). No other supporting documentation has been found. Twenty-two of the stations occupied in the spring were in the area of this data compilation.

50-0009 U.S. Coast and Geodetic Survey

See 45-0001.

51-0001 Burton Island/U.S. Navy H.O. (1954)

In addition to the temperature-salinity data obtained from bottle casts, currents were measured at 27 stations using an Ekman current meter for the greater depths and a biplane down to about 30 m. Several hundred observations were made over a few days while at anchor west of Point Barrow.

51-0010 U.S. Coast and Geodetic Survey

Record lengths and methodology could not be determined from the information supplied by the National Ocean Service, Rockville, Maryland.

51-0011 Project SkiJump I/Worthington (1953a)

A U.S. Navy R-4D aircraft made 12 landings on the ice and 3 hydrographic stations were occupied on Apr. 1 and 21 and on May 3. Nansen bottles were used to collect water samples. In 1951, some of the Nansen bottles froze, causing erroneously high salinities. In 1952 (see 52-0009), efforts were made to ensure that the bottles were not exposed to freezing temperatures. Reversing thermometers were used to measure temperatures.

52-0002 Burton Island/U.S. Navy H.O. (1954)

This survey was concentrated east of 141°W longitude (see Cornford et al., 1982). Two oceanographic stations, 32 and 33, were on the Alaskan side. The submarine USS "Redfish" accompanied the "Burton Island" and participated in acoustic experiments.

52-0009 Project SkiJump II/Worthington (1953a)

This was a continuation of the 1951 project (51-0011). In 1952, the range was extended using P-2V aircraft to refuel the R-4D on the ice. Stations 4 through 8 were occupied using methods similar to those of 1951. See the 51-0011 write-up for details.

At station 7 (79°36'N, 147°10'W) at 1000 m, the Nansen bottle did not close properly, causing questionable results.

52-0010 Ice Island T-3/Worthington (1953b)

Between Nov. 29, 1952 and Aug. 1, 1955, eleven hydrographic casts were made from ice island T-3. Stations 1-4 were made by Worthington, 5-8 and 10 by A.P. Crary of the Air Force Cambridge Research Center and stations 9 and 11 by N. Goldstein of the Air Force Cambridge Research Center. Leakage of some of the sample bottles occurred, making salinity data unsatisfactory for 5 stations. Worthington (1953b) reported only the acceptable salinity data. Stations 12-22 on Jan. 4, 1953 were multiple readings of temperature only at 225 m. All water depths are described as approximate.

52-0012 U.S. Coast and Geodetic Survey

Exact dates and methodology are unclear, according to the information received from National Ocean Service.

54-0002 Burton Island

USNHO (1956) and NODC# 3150456 indicate two stations in this area in August and September. However, NODC# 3152465 also has Burton Island as the vessel, with three stations occupied in May. It is not clear if these three stations are actually part of 54-0002.

54-0013 Soviet Aircraft Landings

The air expedition helped set up the NP-3 and NP-4 drifting ice stations, followed by detailed studies made of the Lomonosov Ridge (Shcherbakov, 1954). Fletcher (1968) shows additional stations in the Chukchi Plateau region which are not listed by Timofeyev (1960) nor mentioned by Shcherbakov (1954).

54-0014 USSR Ice Station NP-3

Current measurements were made at 1000 m depth using a BVP-2 meter during two periods: Nov. 7-19, 1954 and Jan. 12-20, 1955. Apparently, the meter was suspended from the ice. No location could be found. We have used the approximate position of the ice station at that time (88°40'W, 70°W).

54-0015 Ice Station NP-4

This station was established at 75°48'N, 178°25'W. It drifted in and out of this study area, along 180°W longitude. Kucherov and Sternzat (1959) discuss apparatus for measuring the temperature of the snow, ice and water; however, the locations of the measurements are not given.

Nikitin and Dem'yanov (1965) discuss current measurements taken with a BVP-2 recorder. Observations were made at the 1000 m depth.

55-0001/55-0016 Northwind/Burton Island

Both vessels are grouped in NODC files under #3150518. Only one station on Aug. 6 is indicated to be Burton Island; possibly this is in error and it was actually a Northwind station. No supporting documentation has been found.

55-0015

Exact dates are unclear (Beal, 1957, 1968a). A 29 day record in August and 7 days in December were obtained. The Leopold Stevens A-25 float recorder had a clock accurate to 1 or 2 minutes over 48 hours. Radio time signals were used to keep the clock accurate. A 5-cm water level change was recorded as a 1-cm change on the chart, i.e. a 5:1 reduction.

55-0017 Soviet Aircraft Landing

See 48-0007.

55-0018

The USHO (1958) atlas indicates stations of the Requisite; however it seems that it was actually the Northwind and Staten Island that collected the data. The data set has been maintained however, since we are not certain that the Requisite did not collect data.

56-0001 Requisite

These data were analyzed by Hufford (1973). Six current measurement stations were also occupied. The data are in an unpublished U.S. Navy Hydrographic Office report of 1958.

56-0012 Soviet Aircraft Landings

Lationov and Shamont'ev (1957) shows more stations (Fig. 11 this report) than listed by Timofeyev (1960). Possibly not all the stations included hydrographic sampling.

56-0013 Soviet Ice Station NP-6

Documentation showing station locations or measurements made could not be found. Therefore the ice island trajectory has been plotted to show where data probably exist. The trajectory is from the atlas edited by Gorshkov (1983).

56-0014 Atka

The data are on the NODC system, however no documentation describing instrumentation/accuracy has been found.

57-0002 Atka

Hufford (1973) analyzed the temperature-salinity data, and also mentions near-surface current measurements.

57-0011 Ice Floe Alpha/Cabaniss (1962), Hunkins (1966a), Farlow (1958), English (1961)

A tethered drogue was used to measure currents relative to the ice motion (Hunkins, 1966a). The vertical angle between the tether and a plumb line provided a measure of current speed; the horizontal angle between the tether and north gave the bearing. The drogue was calibrated theoretically and against a standard current meter.

For stations 11 through 32, Nansen bottles and reversing thermometers were used (English, 1961). Also, detailed temperature profiles were obtained using a thermistor. The reversing thermometers were of poor quality and some obviously wrong readings have been deleted. Water samples were stored in glass bottles; the salinity was determined at Woods Hole Oceanographic Institute by titration.

Farlow (1958) also reports temperature/salinity data from stations 1 through 10. These salinities were also determined at Woods Hole, using a salinometer.

Location and times are for start of cast. Casts often took several days to complete.

Positions were determined from astronomical observations; some interpolation between sightings was required.

57-0012 USSR Aircraft/Nikitin (1958)

Twenty-four aircraft landings were made and hydrographic data were collected at eleven of the stations. One landing was within the study area and therefore, it appears that there is a 50% chance that hydrographic data were collected at this one station.

57-0013 NP-7 Ice Station

No source documents have been obtained. Station information has been extracted from Timofeyev (1960).

57-0014 Ice Station Bravo (T-3)/Farlow (1958)

Temperature/salinity data were collected using reversing thermometers and bottles. Water samples were sent to Woods Hole Oceanographic Institute, where the salinities were determined using a salinometer (± 0.005 °/oo). The samples from station 10 were titrated for salinity.

Station 16 has data on May 15, 1957 in Farlow (1958) and on the NODC system. The actual year is believed to be 1958 and has been included as such.

57-0015 Eldorado

See 56-0014.

58-0001 Burton Island/U.S. Navy O.O. (1963a)

Nansen bottles were used to collect water samples, and salinities were determined by Knudsen titration aboard ship. Protected and unprotected reversing thermometers provide measures of both temperature and depth. The September data are under NODC# 50574 and reported in U.S.N.O.O. (1963a), whereas the August data may have been collected by a different agency since the data were assigned a different NODC#, 50575.

58-0010 U.S. Aircraft Landings/Beal (1968a, p. 334; 1969)

Winter temperature/salinity data were required for use in sea-level studies. Between February and May 1958, 22 stations were occupied off Point Barrow. The pattern was expanded during the winter of 1959 (59-0014) and an additional 22 stations were occupied.

Landings on the ice were made using light planes. Nansen bottles and reversing thermometers were used to collect data. Beal does not discuss the data or results. Station locations were estimated to the nearest 1 minute latitude and 5 minutes longitude from figure 7 of Beal (1968a). It was arbitrarily assumed that the winter stations were occupied in March. The actual number of stations may be more than shown here; Beal indicated 19 stations in 1958, with 22 additional stations in 1959.

58-0011 Ice Island T-3/Atlantic Ocean. Group/Collin (1959)

Atlantic Oceanographic Group personnel took part in the International Geophysical Year Project on Ice Island T-3. 21 oceanographic stations were occupied between May 26 and Sept. 28, 1958. Three or more casts were made at each station. Surface samples were obtained using a bucket, bottle casts used reversing thermometers and salinity was determined by titration.

58-0013 Skate (submarine)/Friedman et al. (1961)

Surface samples were collected from local ice-free areas near the North Pole. The locations and sample depths are provided by Friedman et al. (1961), but not the dates or method of analyses. For the purposes of this report, the sampling has been arbitrarily assumed to have been done during August.

58-?

These 'Sever' series of spring aircraft surveys apparently occur annually; however for many years, including 1958, no references have been located providing further information.

59-0002 Staten Island/U.S. Navy O.O. (1963b)

Nansen bottles were used to collect water samples. Paired reversing thermometers measured temperature while an unprotected thermometer was used to determine depth. Salinities were determined using a conductivity bridge about 3 months later.

59-0014

See 58-0010.

59-0015 Soviet Ice Station NP-8

Sub-ice drift currents were measured using a self-recording BPV-2 current meter designed by Alekseev. The BPV-2 averages current speed over a 3-minute interval; the direction is an instantaneous measurement. Belyakov (1970) presents some of the data as plots of velocity versus depth.

See 56-0013.

59-0016 Ice Floe Charlie I, Alpha II

The data were obtained from Larry Coachman, University of Washington.

60-0001 Burton Island/U.S. Navy O.O. (1964)

Nansen bottles were used, salinity being determined later using a conductivity bridge at the University of Washington. Paired reversing thermometers provided temperature data.

60-0007 PCSP

Temperature and salinity profile data were obtained by means of bottle casts from the sea-ice. Operations took place in a heated tent to avoid freezing of the salinity and oxygen samples. A light aircraft provided transportation between oceanographic stations, located on frozen leads and the base camp at Isachsen. Dr. Melling of IOS tried to locate the BT data (contacted Campbell and Collin); however the data appear to be lost. Collin (1961) also mentioned that four oceanographic stations were occupied in 1959 in addition to those described as part of 60-0007. However, these data are not on file with MEDS nor was any data report or other information located.

60-0013 Staten Island

The data are on file with NODC and MEDS, however no supporting documentation describing methods and accuracies has been found.

60-0014 Ice Station NP-9

The drift of this ice station was primarily west of 180° longitude. However, during the latter time of occupation (1961), the station drifted into the northern portion of the study area and some data may have been collected here. The emphasis of the scientific programs was on oceanography and meteorology (Polar Record, 1961).

60-0015 Arlis I Ice Station/Brayton (1962)

Reversing bottles were used to collect water samples which were sent to Point Barrow for titration. Some bottles broke due to freezing. The only calibration checks done in the field involved comparison of reversing thermometer values against those from the bathythermograph. No salinity values are available for stations 41-50 due to the absence of sample bottles during this period.

Current measurement, using a Japanese-made Ekman-Merz meter, were considered unreliable in direction due to the weak horizontal component of the magnetic field.

The T/S data are plotted in Brayton (1962) and suspect values are flagged. This report, available from the Arctic Institute North America, Montreal, should be referred to before using these data.

60-0016 Canadian Hydrographic Service

The data are on file at MEDS, however no supporting documentation describing methods and accuracies has been found.

60-0019 U.S. Aircraft

This winter survey was a continuation of the program begun in 1958 (see 58-0010 and 59-0014). Beal (1968b, p. 37) discusses techniques for using light aircraft, but no further information regarding the data collected has been found.

61-0024 Staten Island

Hufford (1973) analyzed the data. No actual data report has been uncovered.

61-0025 USSR Ice Station/Bushuyev et al. (1967)

During March and April, 5 ice stations were set up (not including NP-8 and NP-9 which were drifting around the outer fringes of the Beaufort Sea). Apparently, temperature and salinity data was obtained as dynamic topography was used to estimate ocean currents. Drift measurements were also made using a "driftograph" of unspecified operation. A nominal location of 87.5°N, 147°W and the month of April were assigned for this data set.

61-0026 Arlis II Ice Station

This ice station began on May 23, 1961. Oceanographic programs were conducted by University of Washington personnel John Cooper and Phil Church, and John Linhart of the Arctic Research Laboratory (Weeks and Maher, 1965). However, no details or data could be found, even though the University of Washington Oceanographic library was searched. In November 1961, the station drifted west of 180° longitude. Other known positions are: 76°36.8'N, 174°32'W on Oct. 1, 1962 and 76°13.3'N, 178°30'W on Oct. 30, 1962. The station was occupied later on by oceanographers from the University of Washington and Japan (see data sets 64-0013, 64-0014).

61-0027 Hume (1963)

As part of a study on sedimentation "near" Point Barrow, wind, wave, water level and nearshore drift were measured during two periods: July 9-Sept. 5, 1961 and July 27-Aug.21, 1962.

Waves and water level were measured using a scaled rod driven into the bottom. Nearshore drift was measured using fluorescent dye as a tracer. These environmental measurements were usually made four times daily; morning, noon, evening, and late evening.

62-0021 Northwind/U.S. Coast Guard (1964)

This cruise was primarily conducted in the Bering and Chukchi seas; however, 4 stations (52-55) were located between 156 and 160°W near Point Barrow. Nansen bottles with either two or three reversing thermometers were used and 8 minutes was allowed before tripping the bottles (15 minutes when there was a possibility of ice crystals forming in the bottles). Conductivity was determined using a conductance-type salinometer (model L, University of Washington) with a stated accuracy of ± 0.01 °/oo. Copenhagen water was used as the standard. A few samples had anomalously high salinity due to leaking bottles and these data were deleted.

62-0022 Ice Camps/Herlinveaux (1963)

Water samples were collected using Fjarlie Mark III sampling bottles (Fjarlie, 1953). At station 3, the water was freezing in the bottles and salinities are deemed unreliable. Salinities were determined at Nanaimo, using a conductivity salinometer. Ritcher and Wiese reversing thermometers were used and the ice drift was determined by celestial navigation. Also included in the report by Herlinveaux (1963) is the data from station 7 at Ice Island Arlis II (173°E, out of area), collected using Nansen bottles by Mr. G. Brusca of the University of Southern California. These salinities were determined by titration at the Arctic Research Laboratory, Point Barrow.

62-0023 NP-11/Polar Record (1963)

Soviet ice station NP-11 was established in April 1962, roughly 750 km northeast of Ostrov Vrangelya (Wrangel Island). Drift was to the north northeast at about 7.5 km/day. The station was evacuated on Apr. 20, 1963 at 81°08'N, 139°12'W (Smith, 1971). A note in Polar Record (1963) briefly describes the aircraft resupply and relief expeditions conducted as part of the Sever-14 (autumn 1962) and Sever-15 (spring 1963) operations.

62-0024 Ice Island T-3

Observations were made during April-May by U.S. Underwater Sound Laboratory and Lamont Geophysical Laboratory. This was a joint underwater acoustic experiment with Canadian ice camps (data set 62-0022) and personnel on station Arlis II (outside area 7). No details on the measurements made at T-3 are available; Herlinveaux (1963) notes the existence of the data.

62-? Sever-14

During the spring about 1,000 landings were made on the ice. The usual meteorological, oceanographic, and glaciological measurements were made. Automatic weather stations were also deployed. No further details are available.

63-0012 Ice Island T-3/Hunkins (1967)

Between Aug. 3 and Sept. 21, currents were measured at 100, 200 and 500 m using improved Roberts current meters, manufactured by Marine Advisors Inc. Each meter had been previously calibrated at the Convair towing tank in San Diego. Threshold sensitivities varied between 1.5 and 2.6 cm/s. Unfortunately, the directional data were unreliable, due to the weak magnetic field at this latitude. Some direction information was obtained using a drogue.

Bottom currents were also measured at one location using a bottom tripod-mounted camera to record the motion of a suspended droplet (Hunkins et al. 1969).

63-0013 USSR Ice Station NP-12/Polar Record (1963)

This ice station was established at 76°30'N, 165°W under the leadership of L. Belyakov. Regular reporting began May 1.

Currents were measured using a BPV-2 meter designed by Alekseev. Current speed is averaged over 3 minutes, whereas direction is measured instantaneously (Belyakov, 1970).

63-0014 Sever-15/Polar Record (1963)

These aircraft flights evacuated NP-11 on Apr. 20, 1963. Meteorological, oceanographic and sea ice studies were also made and 23 automatic meteorological stations deployed. In the fall (Oct.-Nov.) 1,000 landings were made on the ice (Polar Record, 1965a). No further details are available.

63-0015 Ice Stations. Defence Research Board of Canada/McGill University

The details of this data set are unknown. Keys et al. (1968, p. 5) mention a station off the Ward Hunt Ice Shelf taken by H. Serson. The location is in the area of the 63-0015 stations, so they are probably one in the same.

63-0016 Arlis II

Operations began at Arlis II in May 1961 (see 61-0026) but in November 1961 the ice station crossed 180°W longitude, out of the area.

In 1963, the ice station crossed back over 180° into this area. It is not known what, if any, data were collected in 1963. The next reported data were in 1964 (see 64-0013).

64-0008 Defence Research Board Canada/Hattersley-Smith and Serson (1966)

This was a motor-toboggan expedition off Nansen Sound. Navigation was by theodolite, fixing stations by bearings on land features. Reversing thermometers and Knudsen bottles were used. Water samples were stored in standard Copenhagen bottles. The method of salinity determination is not provided.

64-0013 Arlis II Ice Station/Tripp and Kusunoki (1967)

Nansen bottles were used to obtain water samples. Two protected reversing thermometers were used on each bottle. For deep casts, an unprotected thermometer was also used. Salinity was determined using an inductive salinometer (model RS-7A, Industrial Instruments Inc., Cedar Grove, New Jersey), which was considered accurate to ± 0.003 $^{o}/oo$, but this value is probably a better estimate of the resolution.

Apparently, University of Hokkaido personnel collected physical oceanographic data at the same time, however titration methods were used to determine salinity (see data set 64-0014).

64-0014 Arlis II Ice Station/Hokkaido University/Kusunoki et al. (1967a)

Scientists from Hokkaido University shared the oceanographic hut with a marine biologist (University of Southern California) and physical oceanographers from the U.S. Naval Oceanographic Office (see data set 64-0013).

Nansen casts were taken daily (exact period of observation unknown), usually using 13 bottles and reversing thermometers (usually 3 per bottle). Some thermometers were found to be off by 0.05°C and were adjusted accordingly. Salinity was determined by Knudsen's titration method (always done twice). These data have not been plotted or listed; however the station locations can be derived from the 64-0013 data.

64-0015 Ice Station NP-13

This station, begun in April 1964, drifted west along the Chukchi slope. No information is available on data or methods.

64-0016 Arlis III

Arlis III was established approximately 275 km northeast of Point Barrow (Fischer, 1968). Hessler (1968) discussed camp operations. No further details on measurements could be found.

64-0017 T-3, McGill/Dunbar and Harding (1968)

Bottles were used to obtain temperature and water samples but the methods were not discussed. Only the start and stop ice island locations are given. They were 80°53.5'N, 136°47'W (June) and 80°34.6'N, 136°50'W (Sept.). The intermediate station locations have been interpolated.

64-0024 Camsell/Meguire et al. (1967)

Three bottles of surface sea water were sampled near sea ice off Barrow during July-August 1964. Chloride ($^{o}/oo$) was determined by conductivity meter and by standard seawater. Exact dates and location are not provided.

64-? Sever-16

During March-May, the largest air expedition to date occurred. Twenty automatic weather stations were deployed and 103 oceanographic stations were occupied. No details regarding locations or methods are available at this time.

65-0013 Ice Island T-3/Tripp (1966), Galt (1967)

Tripp (1966) reports both cruises W01 (June 6-Sept. 22, 1965) and W02 (Sept. 30, 1965-Jan. 12, 1966). Since W02 was a continuation of W01 using similar techniques, they are combined as ID 65-0013.

Station locations were obtained using celestial navigation. Nansen bottles were used to obtain water samples and reversing thermometers recorded temperature. For deep casts (over 200 m), unprotected thermometers provided depth estimates. Salinities were determined by Knudsen titration.

Various current meters were used, including:

T.S.K., Ekman-Merz: ± 5 cm/s, $\pm 20°$
Kelvin-Hughes: ± 5 cm/s, $\pm 10°$
National Institute of Oceanography,
Pisa Tube Current Indicator: ± 1 cm/s threshold, $\pm 20°$

No corrections were made for island movement. The Pisa Tubes (Carruthers, 1958) measured currents relative to the bottom.

65-0014 Staten Island, Polar Pack III

The data are on file at the Ocean Information Library at IOS, Sidney, (call no. 120.1 PH31-1965)

65-0016 Fisheries Research Board

See 60-0013.

65-0017 Ice Station NP-14

The only information available for this Soviet drifting station is taken from the Polar Record, which describes the aircraft logistics in deployment and resupply. It was established during the Sever-17 operations in the Chukchi Sea (Polar Record, 1965b). By late 1965, the station had drifted close to Ostrova Delonga (Wrangel Island). By late January 1966, the station was in the region of Ostrov Genrietty; the st[illegible]s on the ice necessitated a total evacuation which was carried out betw[illegible] 7-12, 1966 (Polar Record, 1967).

65-0022 Arlis IV

Arlis IV was established 140 km northeast of Barrow (Fischer, 1968). As with Arlis III (64-0016) no details on measurements have been found.

65-? Sever-17

No details are presently available regarding this air expedition. A brief mention is made in Polar Record (1965b, 1967).

66-0014 Ice Camp

Oceanographers associated with McGill University occupied 11 stations, four of which are within the bounds of this study area. The program is summarized by Hattersley-Smith and Oliver (1967); however, no details on measurements or methods have been found.

66-0015 Ice Island T-3/Tripp (1967)

Thirty-two casts were made between Jan. 21 and May 21, 1966. Nansen bottles equipped with reversing thermometers were used. Temperatures noted, in most cases, are the average of two values. The depth was calculated from measured wire angles and from smoothed curves of wire length minus thermometric depth versus wire length. Salinity was determined using an inductive salinometer (model RS-7A, Industrial Instruments Inc., Cedar Grove, New Jersey). Accuracy is given as ± 0.003 °/oo, but this is actually more indicative of the resolution. Further casts were made between June 11, 1966 and March 25, 1967. These data were not discussed in Tripp (1967).

66-0018 Ice Island T-3

Van Dunk and Mathieu (1969) do not state the methods used for temperature and salinity determinations.

66-0019 Soviet Ice Station NP-15/Vetshteyn et al. (1974)

Operations began April 15, 1966 with the emphasis on oceanographic work (Polar Record, 1967). No locations or times are given. Winter stations were assumed to have been in January; station locations were estimated from figure 1 of Vetshteyn et al. (1974). These stations may have been occupied using aircraft; the atlas of Gorshkov (1983) shows the ice island west of 180°/longitude at this time. Perhaps Vetshteyn et al. (1974) plotted the stations at °W longitude, instead of °E.

66-0020 Arctic Research/Lewellen (1972)

Water samples were taken in Esatkuat Lagoon (near Point Barrow) on (1) June 15 and 20, Aug. 1, 1966; (2) May 29, 30, 1967; (3) May 15, 17, 1972. The one salinity in 1967 was determined by titration; in 1972 a Beckman RS-7B salinometer was used. No method is given for the 1966 results. For the purposes of this report, a nominal location of 71°17.5'N, 156°42.0'W has been used.

66-? Sever-18

No details are presently available. A brief mention of this air expedition is made in Polar Record (1967, 1969).

67-0010 McGill University/Keys et al. (1968)

Keys et al. (1968) report on the work carried out in Disraeli Fiord (northern Ellesmere Island) during May, June and July 1967. Eight stations were full oceanographic stations using Knudsen bottles; also, 17 other stations were profiled using an in-situ salinothermograph (type unspecified) of limited accuracy.

Current profiles were also made using an Ekman meter and water level observations were also made.

No information on the water level data was provided. For the purposes of this report a nominal location of 83°N, 74°W was assigned and a time frame of June 1967.

67-0012 Ice Island T-3/Hunkins et al. (1969)

Four measurements of bottom currents were made over the Mendeleyev Ridge. A photographic bottom current meter was used which consisted of a camera on a tripod that photographed vane and compass orientation.

67-0013 Defence Research Board of Canada/Hattersley-Smith (1968)

Serson and Finlayson completed 8 oceanographic stations between Cape Aldrich and Nansen Sound along the coastline of northern Ellesmere Island. They have been stored at MEDS as 180767002, the same as the data collected by Keys et al. (1968); however, the report by Keys et al. does not discuss the data collected by Serson and Finlayson.

67-0019 Ice Island T-3

See 56-0014.

67-0020 Ice Island T-3

See 60-0013.

67-0021 Ice Island T-3/McGill

Temperature-salinity data were collected using a thermistor and Wheatstone bridge circuit. This was basically an early, apparently custom-made CTD. No values for accuracy were given (Hansen et al., 1971). Van Dorn bottle casts were also made, with salinity of the water samples determined at Bedford Institute of Oceanography.

67-0024 Ice Island T-3/Kelly (1968)

The study concerned the CO_2 content of seawater. Water was pumped from 5 m beneath the ice where CO_2 content and temperature were determined. The method of temperature determination was not stated.

67-? Sever-19

The air expedition relieved the NP-15 station during April 1967 (Polar Record, 1969). No further information is available at this time.

68-0008 Canadian Hydrographic Service

The actual period of observation is probably not the full two months. These data may be part of the 68-0015 survey.

68-0015 Ice Stations, National Research Council

No supporting documentation has been found. A brief summary of the operation is provided by Hattersley-Smith (1969).

68-0016 Defence Research Board of Canada

Hattersley-Smith (1969) presents only a brief summary of the operation.

68-0018 Ice Island T-3

Bernstein (1972, Figure 10) indicates current profile data collected by Hunkins from ice island T-3. No further information has been found. Further inquiry should be directed to Lamont-Doherty Geophysical Observatory.

68-0019 Ice Island T-3

The agency is unknown, although the leading "31" on the MEDS number indicates the personnel were American. No further details are known.

68-0020 Ice Island T-3

See 68-0019.

68-0021 Ice Station NP-16

In a departure from established Soviet procedure, Alekseev and Buzuev (1973) show temperature, oxygen and silicon profiles from 2 sites. They also provide the locations and dates. They do not provide details on methods or accuracy. Vetshteyn et al. (1974) state that BM-48 sample bottles were used to obtain water samples for oxygen isotope analyses.

68-0023 Northwind/Kinney et al. (1970b)

This ID covers the first "Northwind" cruise in 1968 in the Chukchi Sea area (cruise no. 751). Nansen bottles were used with reversing thermometers and salinity was determined using a Hytech 6220 inductive salinometer at IMS, University of Alaska, Anchorage. Only one of the stations falls within this study area.

68-0031 University of Alaska/Allen (1970)

The study concentrated on ice biota. Ice meltwater was analyzed for salinity, alkalinity, pH and plankton. Water samples from beneath the ice, collected using 3 or 5 litre samplers, were also analyzed, the salinity being determined using an inductive salinometer. The sample depths were not always specified but appear to be obtained at near-surface levels, from directly under the ice, down to depths of 5 m. Sampling was done in Elson Lagoon and off Point Barrow in December 1968 and April, June and August 1969. Exact dates were not specified.

The station latitude/longitudes have been extracted from Figure 1 of Allen (1970).

68-? Staten Island

Burrell et al. (1970) indicate a cruise by the Staten Island; however no results were provided. Burrell was contacted for more detail; however no response has been received. Further enquiries should be directed to him (902-474-7768).

68-? Sever-20

No details are available. The air expedition is mentioned in Polar Record (1969).

69-0021 Ice Station, National Research Council of Canada

No supporting documentation has been found.

69-0022 University of Alaska/Kinney et al. (1971)

D. Schell and P. Kinney used Cessna 180's, from the Naval Arctic Research Laboratory (NARL) at Barrow, to make a September 1969 and a March 1970 survey. Water samples were primarily for nutrient analyses; however salinity was also determined. The method of salinity determination and accuracy were not specified. Station locations have been estimated from a figure in Kinney et al. (1971). Further inquiries should be directed to D. Schell at the University of Alaska, Fairbanks (907-474-7115).

69-0024 Ice Island T-3

An unknown American agency was involved in the collection of these data. No supporting documentation has been found.

69-0025 T-3

The last data on the MEDS file was taken September 26. However, the University of Washington took a Nansen cast in November 1969 (Neshyba et al., 1971). No supporting documentation has been found.

69-0026 University of Alaska/Matthews (1970,1971)

A bubbler pressure gauge recorded hourly at Eluikak Pass beginning late September 1969. The back pressure in the connecting tube is used to measure the hydrostatic pressure. Continuous measurements were made from 1969 to 1970 (Matthews, 1970) and indications are they continued through to 1972.

69-0027 Ice Island T-3/Neal et al. (1969)

A modified XBT was used to obtain detailed temperature profiles in March 1969 (Denner et al., 1971). The resolution of the XBT is stated to be better than 0.002°C.

69-0028 Ice Island T-3, Oregon State University/Neshyba et al. (1971)

A Geodyne CTD probe was modified to cover temperature over a dynamic range of only 4°C and conductivity over a 4 mmho/cm range. Conductivity, temperature and pressure were recorded every 4 seconds. The CTD also carried a Savonius rotor and vane; however, currents were often below the 1 cm/s threshold. Dates of measurements were not reported (Neshyba et al., 1971). University of Washington personnel also made Nansen casts at about this time (Tripp, unpublished).

69-0029 NP-19

Legenkov et al. (1974) discuss temperature measurements begun April 9, 1970. It is not known where the ice station was at this time, or if physical oceanographic data were collected from the station's initial occupation in November 1969 until the temperature measurements commenced in April 1970.

69-? Sever-21

No details are available. The Polar Record (1970) mentions the air expedition as being larger than usual and was called "Sever 69" as well.

70-0001 1st AIDJEX Pilot Study/Coachman and Smith (1971)

The AIDJEX program involved three pilot studies (1970, 1971 and 1972), a lead experiment off Point Barrow in 1974, and the main experiment of 1975-76.

The 1970 pilot study was in cooperation with the Polar Continental Shelf Project and covered the period Mar. 12 - Apr. 5. Its main camp was within a Canadian hydrographic survey camp (Camp 200) located approximately 240 miles north of Tuktoyaktuk. The camp location was initially 72.5°N, 135°W and ended at 72°N, 144°W.

Temperature and salinity data were collected using Nansen bottles and reversing thermometers. Synoptic hydrographic casts were planned to 500 m at three stations spaced in a triangle with sides of approximately 10, 20 and 30 km. One 3-station and nine 2-station synoptic casts were obtained.

Hydrographic Stations

	C-200	Leo	Aquarius
March 24	1330	1430	1330
	1630		
March 26	1030	1030	
	1330		
	1630	1630	
March 27	1030	1030	
	1330	1330	
	1630	1630	
March 29	1030	1030	
	1330	1330	
	1630	1630	
March 30	1030	1030	
	1335		

Braincon meters (models 316 Histogram, 381 Histogram and 573 digital) were suspended beneath the ice at depths of 10, 40, 150 and 500 m. The 381 meters experienced clock-drive mechanism failures in water colder than 0°C and the digital meters failed to record direction.

Measurements of boundary-layer currents were obtained using downward-facing masts mounted with three mechanical current meters, developed by J.D. Smith. Masts were deployed at 5 locations down to 17.7 m beneath the ice. Good data were obtained, primarily over a 4 day period during the passage of a storm. The current meter dates and locations we have used are March 12 and the start/stop locations of the ice floe. Dr. H. Melling of IOS has expressed doubts concerning the quality of the data, thus the "1" rating.

70-0021 University of Alaska for Environmental Protection Agency/Kinney et al. (1971), Alexander et al. (1975)

A. May 23-30, 1970

Sampling was done in eastern Harrison Bay and Simpson Lagoon using a snowmachine and sled (May 24-27); offshore and in western Harrison Bay and Kogru Inlet using a Cessna 180 (May 27). Methods of salinity determination were not stipulated, nor were station locations (Figures only).

B. August 8-September 1

23 stations were occupied in Simpson Lagoon and eastern Harrison Bay. Surface drift was measured using drogues and expendable citrus fruit floats (ECFF).

C. December 3-5

Six stations were occupied in Harrison Bay and Simpson Lagoon using snowmobiles.

70-0022 Ice Island T-3/Bernstein (1972)

Current measurements were made using externally recording (Marine Advisors, model Q-9) meters of the Savonius-rotor and vane type. Five instruments, at 2 depths (70 and 40 m) and 3 sites, were used to form a two-tiered triangular array. The meters were suspended beneath the ice and directionally oriented to surface reference. All telemetry cabling were brought to a single site and recorded on 1 tape. Sampling time interval was 1 minute with speeds integrated over a 30-second period. Direction was integrated over 5-second intervals.

At site B, the lone meter at 40 m had a sticky vane, resulting in suspect directions for speeds less than about 10 cm/s. Also, the site C meters appeared slightly more reliable at low speeds than the meters at site A.

Satellite (perhaps Bernstein meant "celestial"?) navigation fixes allowed the drift of the ice island to be computed and added to the current meter velocities. For plotting purposes, we have used a nominal camp location of 85°N, 95°W.

70-0025 National Research Council of Canada

The MEDS number identifies the agency as National Research Council, Halifax. No supporting documentation has been found. The Frozen Sea Research Group was working in Greely Fiord in March-April (see Queen Elizabeth Islands data compilation, ID #70-0017) and the two projects may have been cooperative.

70-0026 Ice Island T-3

Apparently this is part of the project headed by Dr. T.S. English of the University of Washington. From 1970 to 1973, his group made Nansen casts at T-3 (Smith and English, 1973; Morison and Smith, 1981). No further details are presently available.

70-0027 Ice Island T-3

See 70-0026.

70-0028 NP-20

This ice station was established in April 1970, 650 km north of Wrangel Island. The station drifted slowly north and was evacuated at 81°42'N, 166°W in May 1972. Particular emphasis was placed on the study of water masses at depth (Polar Record, 1972).

70-0029 Ice Island T-3/Neal and Neshyba (1973)

A modified expendable bathythermograph (Denner et al., 1971) was used to take repeated vertical temperature profiles. During Dec. 7 - 8, 1970, 40 hours of profiles were obtained. Profiles were also made on March 30, 1971; during Nov. 26 - 27, 1971, 5-minute profiles were obtained over an 80-m depth interval.

70-0036 University of Alaska/Horner (19??)

Ice cores were obtained using a SIPRE corer. Surface water samples were taken from the hole left by the corer and poured into 4 litre plastic bottles. During the ice-free season, water was sampled using Van Dorn-type bottles. Salinity was determined using a Beckman RS7-B induction salinometer. The main sample locations were 1.5 km offshore of the Naval Arctic Research Laboratory, in water 8 m deep; the other was in Eluitkak Pass. The latitude/longitude for these two sites was taken from Figure 1 (Horner, 19??). Samples were also collected off Wainwright, Prudhoe Bay and at three deep water sites.

Some temperature measurements were also made between June 30, 1970 and March 22, 1971.

70-? Sever-22

No details are available. Polar Record (1971) briefly mentions the air expedition.

71-0003 2nd AIDJEX Pilot Study/Hunkins (1972), Newton and Coachman (1973a)

The second AIDJEX pilot study was conducted from Camp 200, operated by the Polar Continental Shelf Project. The interior flow field was studied by personnel from the University of Washington (L.K. Coachman, J.D. Smith and J.L. Newton), and K. Hunkins from Lamont investigated the boundary-layer currents near the water-ice interface.

The University of Washington measurements covered the period from Mar. 16 to Apr. 2, 1971 and consisted of hydrographic casts, current meter measurements, ice motion measurements and weather observations. Nansen casts were made at the main and two secondary camps 4 times per day. Reversing thermometers were used and water samples were sent to Seattle for salinity determination. Five current meter records were obtained between 10 and 400 m depths using Braincon 316 and Aanderaa RCM 4 current meters. The meters were suspended beneath the ice.

The Lamont program involved Savonius-rotor current meters mounted on inverted masts at fixed depths. The fixed meters were at 5, 7, 11 and 19 m on one mast and at 32 and 75 m on the other. Directional reference was through surface orientation. Current profiles were also made by lowering a meter by hand. Temperature profiles were made using a thermistor. Camp location was 74°05'N, 131°23'W on March 18; 73°44'N, 131°08'W on April 7.

71-0013 Louis S. St. Laurent

Temperature/salinity data were collected in August from the Louis S. St. Laurent. Knudsen bottles were used, combined with paired reversing thermometers. Temperatures were believed accurate to 0.02°C and salinities, using a Bissett-Berman salinometer, precise to 0.005°/oo.

71-0020 Glacier/Hufford et al. (1974)

During Aug. 17 - Sept. 20, 1971 and Aug. 2 - Sept. 12, 1972, the U.S. Coast Guard cutter Glacier and the RV Natchik were used to do ecological surveys of the Beaufort Sea (WEBSEC 71-72). The Natchik collected temperature and salinity data using Nansen bottle casts, whereas the Glacier was additionally equipped with an STD and made XBT drops and current meter lowerings.

The STD used was a Bissett-Berman model 9006 (in 1971) and model 9040 (in 1972), using reversing thermometers and Nansen and/or Niskin bottles to collect water samples. Conductivities were determined using inductive salinometers calibrated with standard Copenhagen water. Salinities were computed using the International Oceanographic Tables.

In 1971, currents at surface, 20 m and near-bottom were measured while at anchor using Hydroproducts 501 and Geodyne 102 current meters. In 1972, short term current measurements were made using Geodyne 102 meters. As well, Geodyne 102 meters were moored at 25 and 50 m depths for 36 days on the continental shelf just east of Point Barrow (Hufford, 1975). Processing of the data was done by E.G. & G. Company of Waltham, Massachusetts.

Note that Hufford et al. (1974) and NODC have the Glacier data on file but not the data collected by the Natchik in either 1971 (71-0021) or 1972 (72-0028). No dates or locations for these data have yet been found. Hufford et al. (1974) show a plot of the station locations and use the data for plotting, but do not include them in the appendices as they do the Glacier data. USGS personnel were also on this cruise (Barnes et al., 1973). Their data have been assigned ID #71-0040.

71-0021

See 71-0020. Station locations extracted from Figure 2 (Hufford et al., 1974). Nominal date of August was used.

71-0022A University of Alaska/Dygas (1975)

An Aanderaa current meter, sampling every 10 minutes, was moored 1 m off the bottom in water 2.5 m deep. At this shallow depth, errors in speed and direction measurements may have occurred in the presence of surface waves.

Surface drift was also measured using drift cards (Dygas and Burrell, 1975).

71-0022B University of Alaska/Alexander (1974)

As part of the biological program, salinities were also measured (method unknown). Station locations were extracted from Figures 5 and 8 (Alexander, 1974).

71-0023 Northwind/Paquette and Bourke (1973)

This cruise was primarily dedicated to tending 2 drifting ice floe stations, but it was also used to obtain temperature and salinity data. A Bissett-Berman 9006 STD was used, but initially had a lower salinity limit of

30°/oo; therefore near-surface data were obtained using a hand-lowered Beckman RS5. Stations 105 to 163 were made with the 9006 STD using a shunt to lower the salinity scale. Different response times of the sensors produced poor data, in gradient zones, which were smoothed manually.

The RS5 and 9006 results were compared and mean differences were 0.29°C and 0.41°/oo. Corrections were applied to the RS5 data, however, they remain suspect. The 9006 STD was calibrated against water samples collected just above the instrument. Salinity error averaged 0.09°/oo with a standard deviation of the mean of 0.01°/oo. Temperature error was -0.07 and 0.007°C deviation. Corrections were made for the mean errors.

Data were digitized from the paper records and sigma-t computed using Knudsen's formula.

71-0024 Applied Physics Lab., University of Washington/Garrison and Pence (1973)

In conjunction with the temperature-salinity program, current meters were suspended beneath a drifting ice floe. A nominal location of 71°30'N, 155°W has been used.

71-0025 University of Alaska/Schell (1975)

See 69-0022. Station locations have been extracted from Figure 10 (Schell, 1975). Nominal date of May has been assumed.

71-0026 University of Alaska/Schell (1975)

A tractor-train operated by the Naval Arctic Research Laboratory followed the coastline between Point Barrow and Harrison Bay. See 72-0033 for methods. Station locations have been extracted from Figure 3 of Schell (1975) and are considered accurate to ±1 minute latitude, ±1 minute longitude. All stations of the April - May survey have been arbitrarily assigned a date of April 1971.

71-0031 Ice Island T-3/University of Washington

See 70-0026.

71-0032 Ice Island T-3/University of Washington

See 70-0026.

71-0033 Colville River Delta/Walker (1974), Hamilton et al., (1974)

Usually a helicopter was used to land on ice at the station location. A portable Beckman RS5 was used to measure temperature and conductivity at 60-cm intervals (15 cm near the pycnocline). A thermistor was also used to measure temperature to 0.1°C at the same intervals. Water samples were collected near the interface for chemical and sediment analyses. The report does not provide station locations, times or depths. The station locations have been extracted from a figure of Walker's to the nearest 1 minute. In January 1984, Walker (LSU) was in the process of producing a more complete assemblage of the data for the North Slope Borough.

71-0034 Ice Island T-3/University of Washington

Morison and Smith (1981) present data collected during the first half of 1971. No primary references for these data have been found. Further inquiries should be directed to Mr. R. Tripp, University of Washington.

71-0035 University of Alaska/Horner et al. (1974)

Water samples were collected with 6 litre polyvinyl-chloride bottles. Station locations have been extracted from Figures 1-3 of Horner et al. (1974). Only the range of dates for each survey were provided; therefore, in most cases, exact dates have not been listed. On the third cruise, a Beckman RS5-3 probe was used to measure temperature and conductivity.

71-0036 Canadian Hydrographic Service

MEDS records show the start date as day one of the month of deployment, and stop date as the last day of the month in which the instrument was recovered. The actual period of deployment is generally only about one month long, not the two months suggested by their records.

71-0040 U.S. Geological Survey/Barnes et al. (1973)

USGS personnel conducted surveys along the Alaskan Shelf using the Natchik (71 AJT-USGS ref. no.), Loon (71 AER) and Glacier (71 ABP). Although they were working on the Natchik at the same time as Hufford et al. (1974), ID #71-0021, different programs, methods, etc. were involved.

71-0044 University of Alaska

See 70-0036.

71-? Sever-23

No details are available. The air expedition is mentioned in Polar Record (1972).

72-0027 U.S.C.G.C. Glacier, Websec-72

See 71-0020.

72-0028 R.V. Natchik, Websec-72

See 71-0020. Station locations were extracted from Hufford et al. (1974), Figure 3. The nominal date of August was used in the listing.

72-0029A University of Alaska/Dygas (1975)

An Aanderaa current meter was moored in the same location as in 1971 (1 m off the bottom in 2.5 m of water) and recorded every 10 minutes.

Surface drift was also measured using drift cards.

72-0029B University of Alaska/Schell (1975), Alexander et al. (1975)

Water samples were collected using 2-litre plastic Van Dorn bottles. Errors in salinity may have occurred due to ice formation in the bottles during rinsing. Most salinities were determined using a Beckman model RS-7B salinometer. In-situ measurements were also made using a Beckman RS-5 salinometer.

Station locations have been extracted from Figure 9 of Alexander (1975) and are accurate to only about ±1 minute.

72-0030 Ice Camp/Garrison et al. (1973)

Only 1 cast/day on the ice camp is listed here; however 10 to 15 casts/day were actually made. Station locations were extracted from Figure 12. Two stations at 71°N, 157°W plot on land and were changed to 71°32'N, 157°30'W.

72-0031 Louisiana State University/Wiseman et al. (1973)

Occasional STD data were collected in Simpson Lagoon, near Pingok Island, and drogues were tracked. No details regarding station locations and measurements are provided.

72-0032 U.S. Geological Survey/Barnes and Garlow (1975)

4200 drift cards (cards encased in plastic envelopes) were released during the August - September 1972 WEBSEC cruise. Return rate was 1.8%.

The spring runoff of the Kuparuk River into Gwydyr Bay was also studied in June. Velocities and the depth of the fresh/seawater interface are mentioned by Barnes and Reimnitz(1972); however, no further information on measurement techniques was provided. Barnes and Reimnitz (1973b) mention temperature/salinity data for July 1972 and August-September of 1970, 1971 and 1972; however no details are provided. In 1972, three cruise segments were involved: Natchik (72AJT), Loon (72AER), and Glacier (72APB). The program was apparently independent of simultaneous studies by Hufford et al. (1974) aboard the Natchik (72-0028).

72-0033 Ice Island T-3

No primary reference has been found, although Morison and Smith (1981) present temperature/salinity results for this year.

72-0034 University of Alaska/Kogl and Schell (1975)

During fishing research, temperature and salinities were also measured in the Colville River delta. No details of methods are given.

72-0035 AIDJEX '72 Pilot Study

A. Lamont-Doherty Geological Observation Group/Hunkins and Amos (1972)

Lamont-Doherty Geological Observatory conducted a program to determine the water drag on the bottom of ice floes. 10 Savonius-rotor current meters (Bendex/Marine Advisor Q-9) were mounted on 3 inverted masts beneath the ice. Current direction was referenced to the floe, the orientation of which was monitored celestially. Current profiles were also obtained using current meters and a specially designed "ocean boundary profiler" (Hunkins, 1973). Also, 2 Geodyne 850 current meters were moored at 250- and 345-m depths.

A Bissett-Berman 9040 STD was used to measure temperature, conductivity and pressure. The STD salinity output tended to drift when the instrument was held stationary in the water column. The reason for this could not be determined; however, Nansen bottles were used to collect samples for calibration.

B. University of Washington Group/Newton and Coachman (1973b)

The University of Washington group, as in 1970 and 1971, measured currents and water properties in order to determine how accurately Arctic Ocean currents could be estimated using the traditional geostrophic methods. Recording current meters were installed (presumably suspended beneath the ice) and hydrographic casts were made at each of the 3 stations. Aanderaa RCM4 and Braincon 316 current meters were used. Current meter malfunctioning caused the loss of directional data at 500 and 850 m at BM camp and of all data below 30 m at JS camp. The hydrographic casts employed Nansen bottles and reversing thermometers. For our purposes, we assume current meter locations to be nominal camp locations of 76°N, 150°30'W; 75°15'N, 153°30'W; and 75°N, 149°30'W.

C. University of Washington/Smith (1972)

J.D. Smith (1972), of the University of Washington, was in charge of a surface boundary layer study. Triplets of component measuring current meters were fixed at 1, 2, 4, 8, 16 and 26 m below the ice bottom on two short frames; at 2, 4, 8, 12, 16, 20, and 26 m on a third short frame; and at 26, 32, 38, 44 and 54 m below the ice on a long mast. CTD data were also collected between Mar. 13 and Apr. 26, with 297 lowerings to 65 m and 20 lowerings to 1000 m respectively.

D. McGill University/Pounder and Langleben (1972)

This group collected 10 temperature and salinity profiles from Apr. 6 - 12. A malfunction caused a salinity offset of about 0.5°/oo. The instrument used was not specified.

E. University of California/Goddard (1972)

One of this group's projects included measurements of water speed every 5 minutes at 12.5, 25, 50, 100 and 200 cm from Mar. 27 to Apr. 14. No details of instrumentation/methods were given.

F. University of Alaska/Horner (1972)

Divers, while conducting ice-bottom biota studies on April 23, 1972, collected a water sample using a hand held Van Dorn-type water sampler. The salinity was determined to be 30.15°/oo.

72-0038 National Research Council of Canada

No references have been found. The data are stored at MEDS under an identifier which indicates the agency was NRC, Halifax.

72-0039 National Research Council of Canada

As per 72-0038. Sadler et al. made measurements further south in Robeson Channel during April-June (see Baffin Bay data report, ID #72-0018, Sadler (1976)) but there is no indication they made the measurement further north in July. Also, different MEDS numbers are involved; therefore it apparently was not Sadler's group that made the measurement in the Lincoln Sea.

72-0041 Burton Island, MIZPAC '72

See 71-0023 for methods.

72-? Sever-24

No details are available. Polar Record (1972) mentions the air expedition.

73-0026 Burton Island

A CTD developed by the University of Washington was used and checked with results from Nansen bottle casts. The salinity profiles appeared to be high by about 0.1°/oo, increasing to 0.2°/co. Resolution was believed to be ± 0.05 °/oo.

73-0027 University of Washington/Mountain et al. (1976)

One array, with Aanderaa current meters at 96 and 126 m, was moored in Barrow Canyon from Apr. 18 to Aug. 17. Sampling was every 20 minutes and included temperature. Two records 120 days long were acquired. Estimated accuracies were given as ±1 cm/s, ±3 degrees direction and ±0.2°C.

73-0028 University of Alaska/Schell (1975)

See 72-0029B for methods.

Station locations have been extracted from Figures 8 and 9 of Schell (1975) and are accurate to about ±1 minute.

73-0033 USSR Aircraft Survey

These high-latitude air expeditions had by now become complex operations. In 1973 (Sever-25), 1974 (Sever-26) and 1975 (Sever-27), the expeditions lasted about three months in the spring and a shorter period in the fall.

From 1973 to 1975, about 180 stations were occupied as part of the Soviet Polar Experiment (POLEX). The locations of these stations are unknown to the authors. POLEX extended through to 1980 and the Sever series continued to occupy stations in support of the experiment.

73-0034 Soviet Ice Station NP-22/Mel'nikov (1976)

This station was established in September 1973 at 76°14'N, 168°31'W on an ice island estimated to be 400 years old. By 1976 it was in the Beaufort Gyre. In September 1977 the ice station had been manned for 4 years, the longest station occupation to date.

From May to November 1975, specific studies of biological productivity were made. The first station was at 83°54'N, 167°58'W on May 20, 1975 and the last at 83°17'N, 154°35'W on Oct. 19, 1975. In all, 8 bottle stations and 10 plankton stations were occupied. Bottle samples were made using an 8-litre plastic bottle with samples at 5, 25, 50, 100, 200, 300, 500, 1000 and 30-50 m from bottom.

Sampling continued during Apr. 12 - May 1976 (Mel'nikov, 1977). This program included a 12-hour series of temperature measurements at 20 m intervals to a depth of 220 m to observe internal waves.

Further sampling was done in May - October 1977 and during April 1978.

73-0035 Ice Island T-3

See 72-0033. As well as the University of Washington program, W. Reeburgh of the University of Alaska made a cast to 1300 m. These latter data have been reported by Ostlund (1982).

73-0037 U.S. Geological Survey

Current data 2 m off the bottom were obtained using a Geodyne meter. The location was northwest of Thetis Island and covered the period June through mid August. The data have not been published. Barnes, of the USGS, told us that the data may be seen at Menlo Park, California. Temperature/salinity may also have been collected (Barnes and Reimnitz, 1973c).

73-0038 Louisiana State University

See 71-0033.

73-0045 Jet Propulsion Lab/Atlas (1973)

Surface samples were collected in flasks and bottom samples via a Van Dorn sampler. Temperature and salinity were determined using a Beckman portable salinometer (Model RS-5). Salinities of the samples were checked with a lab model RS-7a inductive salinometer.

74-0037 APL-University of Washington Ice Stations

Station locations were not given. They have been estimated from the ice floe trajectory on Figure 27 (Garrison and Becker, 1975). Two CTD units were used. The first consisted of a thermistor and NUS conductivity cell, whereas

the second used a newly-developed conductivity cell. Intercalibrations, including Nansen casts, showed the NUS cell to be reading about 0.4°/oo too high. Most profiles were made with this instrument.

74-0038 APL-University of Washington

The instrument used was not specified (Garrison and Becker, 1975). It agreed well with the results from other instruments on board. It was probably the APL-developed CTD used in 73-0026 and 74-0039.

74-0046 AIDJEX Lead Experiment

A. University of Washington/J.D. Smith (1974a)

Profiles of conductivity and temperature were made using an unspecified CTD. Calibration of the CTD was checked by comparing the measured temperature profiles in the mixed layer with freezing temperature profiles calculated for this region using the equation of Fujino et al. (1974). The estimated accuracies were given as 0.001°C and 0.02°/oo.

Current measurements were obtained using current meters attached to inverted masts, and current profiles.

No details regarding times, etc. were available.

74-0047 Sever-26

See 73-0033.

74-0048 Staten Island

These data are filed at both MEDS and NODC, but no primary reference has yet been found.

75-0005 AIDJEX Main Experiment

A. CTD Data/Bauer et al. (1980a, b, c, and d)

At four ice camps, 1391 CTD casts were made during the main AIDJEX experiment from April 1975 to April 1976. Casts were made at least once a day from 0 to 750 m at all camps and weekly casts to 3000 m were made at the main camp. Severe ice activity caused abandonment of the main camp (Big Bear) during October 1975. Between casts, time series were recorded at fixed depths in the pycnocline; these data are still being processed (Manley, personal communication).

Plessy 9040 STD's were used, except at the Caribou camp, where the STD sensor was replaced by a CTD 9040 sensor in January 1976. The data were corrected for the different response times of the temperature and conductivity sensors, by varying a lag correction until one value gave nearly congruent traces for descending and ascending casts.

A salinity drift occurred when the STD was stopped for bottle samples. This was corrected in an unspecified manner. Static calibration was provided by bottle samples and reversing thermometers. At the satellite camps,

generally 2 bottles were taken with each cast. At the main camp, a rosette sampler allowed up to 10 bottles per station; the average being 4. Salinities were determined at the main camp using a Guildline Autosal salinometer, except over the summer of 1975 when a backup Hytech salinometer was used. Differences between bottle data and CTD were typically ±0.001 to ±0.047°/oo and ±0.024 to ±0.044°C.

The data were simultaneously recorded on analog chart recorders. In 67% of the profiles, the digital data logger failed to function properly and the analog traces were manually digitized to provide temperature and conductivity data. Accuracy using this method was typically ±0.025 to ±0.050°/oo and ±0.037 to ±0.059°C. The station headers are provided in Section 11.4.

B. Current Profiles/Manley et al. (1980)

Profiles of relative current speed and direction were recorded about twice daily between surface and 200 m at each of the 4 camps. In total, 2084 current profiles were made and 1174 were useable. Current time series were also recorded - 9 at camp Caribou, 2 at Blue Fox, 17 at Snowbird and 28 at camp Big Bear. The instrument used was a Tsurumi-Seiki Co. Ltd. (TSK) unit with a Savonius rotor, directional vane and pressure sensor. Direction was referenced to an internal magnetic compass; internal friction on the directional system was minimized. This was considered important because of the weak horizontal component of the earth's magnetic field. Analog charts were manually digitized to provide as much detail as possible. Absolute velocities were determined by vector addition of the ice velocity based on the precise satellite navigation.

The Savonius rotors were sluggish, probably due to bearing drag. In order to calibrate them, they were compared with the more accurate readings of the 30 m fixed-mast velocity sensors. These station headers are listed in Section 11.5.

C. Fixed Current Meters

Fixed-mast current meters were suspended beneath the ice at each camp at depths of 2 and 30 m below the base of the ice. The instruments were HydroProducts with Savonius rotors. The direction sensors were referenced to the instrument case, which was referenced to the camp azimuth and therefore, true north. The data was recorded at 30-second intervals on the data logger as well as on a multipoint recorder. No data reports are yet available for this data, but hourly-averaged values can be obtained from NODC.

75-0052 University of Washington/Helicopter/Aagaard (1976)

Lines of CTD stations were occupied across the Beaufort Sea Shelf. This is probably the first time a helicopter and portable CTD system were used to do a synoptic oceanographic survey. A Nansen bottle and reversing thermometers were deployed with each profile. The collected salinity samples were frozen and analyzed with an inductive salinometer upon return to Barrow.

75-0053 Ice Camp, Applied Physics Laboratory, University of Washington

Local times are given; positions are extracted from Figure 1 (Garrison, 1976). Only 1 cast/day is indicated here, although up to 6 casts were actually made per day. Garrison does not discuss instrument performance or accuracy.

75-0054 Aircraft, Applied Physics Laboratory, University of Washington

Times are local. Positions were extracted from Figure 5 (Garrison, 1976). Accuracies were not specified.

75-0055 Aircraft, Applied Physics Laboratory, University of Washington

Times are local. Positions were extracted from Figure 7 (Garrison, 1976). Accuracies were not specified.

75-0056 Helicopter, Applied Physics Laboratory, University of Washington

Times are local. Positions were extracted from Figure 33 (Garrison, 1976). Accuracies were not specified.

75-0057 Karluk, U.S. Geological Survey/Barnes et al. (1977)

Surface temperature and salinity observations were made using a conductivity cell. Accuracies were given as $\pm 0.5°$ and $\pm 0.5°/oo$. No station locations or dates are provided and the data have not been plotted or listed.

75-0058 Environmental Protection Agency/Callaway and Koblinsky (1976)

Instruments were to be deployed offshore of Prudhoe Bay; however bad ice conditions caused the field work to be aborted.

Water level measurements were obtained at Stockton and Thetis islands. Two Bass Engineering optical lever tide recorders were installed. The recorders were mounted on tripods, fitted with a 50 pound (22.7 kg) weight and lowered by rope to the bottom. A vinyl buoy was used as a marker. Precision/accuracy of the measurements was not specified by Callaway and Koblinsky (1976), possibly because the data analysis was still in progress.

75-0059 Alaska Department of Fish and Game/Bendock (1977)

While doing fishery research, temperature/salinity data were collected using a Yellow Springs Instrument Co. meter. The data were put into OCSEAP format and stored on magnetic tape. Seventy-six stations were sampled in both 1975 and 1976. They are in the NODC files under F123/TR0642. We have assumed that temperature/salinity data were collected at all the locations on file. Some locations plot on land; they are the locations received from NODC.

75-0066 MIZPAC '75

The pertinent reference has not yet been obtained (Zuberbuhler and Roeder, 1976). This study may have been outside our study area.

75-0067 Ice Station NP-23

Very little information could be located for this drifting ice station. The station was established on an ice island (over 20 m thickness) in December 1975 (Polar Record, 1977). This station along with NP-22 was used exclusively in both 1975 and 1976 as a base for the Polex North Program. Polar Record (1978) notes that NP-23 was by October 1977 only 200 km from the North Pole. The work program, at least at that time, included sea ice studies, diver-based biological studies, investigations of micro-organisms near the ice-water interface, and fisheries.

75-0068 Oceanographic Services Inc. for AMOCO et al./OSI (1976)

This was a winter ice movement study, however water-level and current information were collected. No further details are available. OSI and the 8 oil companies who funded the project have been approached for more information. Of the eight oil companies, Mobil (contact Bill Mitchell 214-658-4856), Chevron (contact Larry Brooks 213-694-7656) and AMOCO (contact Bob Nagel 303-830-4218) have yet to respond to the request for release of the information.

75-0072 OCSEAP

A. University of Louisville/Atlas (1975)

Samples were collected during August-September between Barrow and Prudhoe Bay for microbiological studies. A Boston Whaler and the USGS Beaver aircraft were used. Surface water samples were collected using Niskin bottles. Nutrient analyses were done by Dr. Vera Alexander. Temperature/salinity was determined using a Yellow Springs Instrument (YSI) meter. The paper by Atlas (1975) gives location (eg: Barrow) but no latitude/longitude, therefore, the coordinates used are nominal.

B. Oregon State University/Morita and Griffiths (1975)

In conjunction with Atlas' group, further sampling was done by Oregon State personnel. Locations, times, etc. were similar to 75-0072A and have not been plotted.

75-? Sever-27

See 73-0033.

76-0037 Helicopter, University of Washington.

See 75-0052.

76-0038 Helicopter, University of Washington/Aagaard (1981a)

Two current meter moorings were suspended from fast ice near Narwhal Island (NAR-1, NAR-2) at a depth of 10 m. The ice moved during the last 6 days of the NAR-2 record; however radar tracking of the site allowed University of Washington personnel to subtract the ice motion from the current meter record.

76-0039 University of Washington

The instrumentation for T/S data collection was not specified.

76-0041 University of Alaska, U.S.G.S.

Accuracies were not stated.

76-0042 U.S.C.G.C. Glacier, Helicopters

Richardson expendable surface current probes (ESCP) were deployed by helicopter. Upon reaching bottom, the probes release two floats with about a 3-minute delay between releases. The separation of the floats when they reach the surface is then related to the vertically-averaged current. Relative float positioning was estimated to be $\pm$ 2 m, which suggests speed accuracies of about $\pm$ 1 cm/s.

76-0043 Helicopter, Applied Physics Laboratory, University of Washington

Times are local. Station locations were extracted from Figure 8 (Garrison, 1977). Temperature accuracy was not stated.

76-0044 Helicopter, Applied Physics Laboratory, University of Washington

Times are local. Station locations were extracted from Figure 20 (Garrison, 1977). Temperature accuracy was not stated.

76-0045 Alaska Department of Fish and Game/Bendock (1977)

See 75-0059, F123/TR2380.

76-0046 Alaska Fish & Game/Bendock (1977)

One station was occupied at the west dock of Prudhoe Bay. The remaining winter sampling stations were on the Kuparuk and Sagavanirktok rivers and have not been compiled.

76-0051 Small Boat/Wiseman (1979)

Three surveys were made; Aug. 12, 22 and Sept. 6. Each survey consisted of 9 or 10 stations using an Inter Ocean CSTD. No details of station locations, times and depths are given in the paper. A set of drogue tracks was also collected (Wiseman, pers. comm.).

76-0053 Canadian Hydrographic Service

See 71-0036.

76-0054 Oceanographic Services Inc. for AMOCO et al./OSI (1978)

This is a continuation of the 1975 - 1976 study. See the comments under 75-0068.

76-0055 NOAA (1979)

Water level data have been collected at Prudhoe Bay since 1976. The exact dates and locations are unclear. Apparently the 1976 location was dock no. 1 and for 1977-79, dock no. 2. We have assumed dock no. 1 is the old east dock and dock no. 2 the new west dock.

The National Ocean Service index of tide stations NOS (1984) indicates station #9497649 to be continuing from 1976, therefore apparently the record does not end in 1979. The report (NOS, 1984) indicates one location (70°23.3'N, 148°30.1'W) with operation periods of 7/24/1977 - 10/7/1980, 7/9/1981 - 9/25/1981, 7/8/1982 - 9/17/1982 and 7/9/1983 - 9/30/1983.

76-0058 CRREL/Iskandar et al. (1978)

The conductivity of water under the ice was determined at three sites during March-May 1976. Locations were extracted from Figure 1 of Iskandar et al. (1978). Exact sample dates and methods are unknown. A nominal date of April has been used for the purposes of this report.

76-? Sever-28

No details are available. Polar Record (1977) mentions the aircraft survey, but locations etc. are unknown.

77-0044 University of Washington, Helicopter

CTD casts were obtained using a Plessy Model 9400 profiling system, with the sensor package redesigned to fit through a 20-cm (8 inch) hole. A Nansen bottle and reversing thermometers were mounted 1 m above the sensors to allow for field calibration. Salinity of the samples was determined at Point Barrow using a Hytech Model 6220 portable salinometer S/N 49.17 (Tripp, 1977).

This was University of Washington cruise No. W27.

77-0046 Applied Physics Laboratory, University of Washington

Times are local. Station locations were extracted from Figure 4 (Garrison, Welch and Shaw, 1979). Accuracies were not stated.

77-0047 Applied Physics Laboratory, University of Washington

Times are local. Station locations were extracted from Figure 11 (Garrison, Welch and Shaw, 1979). Accuracies were not stated.

77-0048 Applied Physics Laboratory, University of Washington

Times are local. Station locations were extracted from Figure 18 (Garrison, Welch and Shaw, 1979). Accuracies were not stated.

77-0049 Burton Island - MIZPAC 77/Graham (1978)

CTD casts were made using a portable hand-lowered CTD developed by APL-University of Washington (Pederson, 1973). Eighteen stations were occupied by lowering the CTD from a hovering helicopter. Standardization was accomplished

by taking Nansen casts 2 to 5 m above the bottom. The mean difference between the CTD and the bottle salinities was 0.021°/oo with a standard deviation of ±0.025. The standard deviation of the difference between the CTD temperature and the reversing thermometers was ±0.036°C.

77-0050 Ice Camp APLIS

Times are local. Station locations were extracted from Figure 21 (Garrison, Welch and Shaw, 1979). Accuracies were not stated.

77-0051 Texas A & M University/Mungall et al. (1978)

A Beckman RS5-3 (modified to measure down to -2°C) was used. It was "considered" accurate to 0.1°/oo and 0.1°C. Measurements were taken from a small boat and on Aug. 15, a helicopter survey was done (single measurements at 1 foot depth).

Some current measurements were obtained using a Hydroproducts deck readout current meter with a Savonius rotor. Direction readings are suspect.

Exact measurement locations were not provided and have been estimated from the comments in the text and from Figure 4 of Mungall et al. (1978).

77-0052 University of Alaska/Matthews (1978)

Three Aanderaa current meters were deployed near the bottom using rigid pipe frameworks; 2 were recovered. An in-situ tide gauge was also moored using a similar frame.

Temperature/salinity profiles were attempted using an RS5; however only temperatures were obtained. Nansen bottle casts were also made at 5 sites. Times are local ADT. Station locations were extracted from Figure 1 (Matthews, 1978).

Current profiles were obtained using a Hydroproducts meter (Savonius rotor).

Surface drifters (Woodhead concave plastic discs) were released on Aug. 7. Recovery was 12% for those released inside the lagoons and 2% for those offshore of the barrier islands (Matthews, 1981a).

Accuracies were not stated.

77-0053

Longshore current velocity was measured by timing the drift of a neutrally buoyant float along a pre-determined distance of beach. Other measurements included wave height, direction, period and wind speed and direction.

77-0054 Alaska Department of Fish and Game

See 76-0045, F123/TR8215. Some stations plot on land; these are the locations supplied by NODC.

77-0055 U.S. Geological Survey

Bottom drifters were released in Harrison Bay and recovered through 1978. See Figure 6 of Matthews (1981a) and Barnes and Toimil (1979).

77-0056 Hufford

A surface current study of Harrison Bay was done during August 14-15. The method is unknown, probably expendable probes as used in 1976 (76-0042).

77-0063 University of Alaska

This was a biological survey, although some temperature/salinity data were collected (Schell, personal communication). We have assumed temperature/salinity data were collected at all the primary productivity stations.

77-? Sever-29

No details are available. Polar Record (1978) mentions the aircraft survey. As part of the POLEX program, 162 oceanographic stations were occupied between Greenland and Bering Strait.

78-0032 University of Washington/Helicopter

The current meter moorings were designed and built by the Department of Oceanography, University of Washington (Darnall, 1978). Aanderaa RCM-4 current meters were used.

78-0033 University of Alaska/Matthews (1979)

Helicopters were used for deploying and recovering current-meter moorings during open-water; divers were used for through-ice recovery. Aanderaa current meters were used, mounted with tide gauges on shallow-water instrument frames. The first deployment was through ice in Egg Island Channel. A current meter and tide gauge recorded from May 13 - 26, 1978. Instruments were exchanged on May 26 and again on July 26. In August, current meters and a water level gauge were moored off Beechey and Milne points.

On July 27, both surface and bottom drifters (plastic Woodhead drifters) were released near Beechey Point (Matthews, 1981a). Temperature/salinity data are discussed by Matthews (1979);however it is not clear whether these data were from the current meters or using bottle/CTD.

78-0034 Kinnetic Labs, Texas A&M/Mungall et al. (1979)

A float plane was used to do a hydrographic survey of Simpson Lagoon on July 28, 1978. A second survey was made on Aug. 5, using a helicopter. Mungall et al. (1979) do not state what instrument was used (a Beckman RS5-3 had been used in the 1977 field program). Other temperature/salinity data were collected at Milne Point and near the camp.

A current meter and wave gauge were installed 50 meters offshore with data transferred to shore via a land line. The current sensor was electromagnetic (Marsh McBirney model 512). Time constants of response time

were 0.1 and 20 seconds. The current sensor was placed on a pipe frame, "usually" 20 cm above bottom.

The wave gauge was of the capacitance type, made to order by Specialized Ocean Instruments of Baton Rouge, Louisiana.

Typically, the current and wave sensors were sampled at 0.2-second intervals for periods of 102.2 seconds, then analyzed on a microcomputer.

Drogued drifters were also tracked using direction-finder units. The depth of the drogues was 10 m for offshore and 1 m for drogues released within the lagoon.

Station locations are not specified, but have been estimated from Figures 26 and 27 in the report by Mungall et al. (1978).

78-0035 Woodward-Clyde

Few details are known regarding this data set. The results are reviewed in Mangarella et al. (1982), but the primary references have not yet been obtained.

78-0036 University of Alaska/Matthews (1981b)

Current meters were deployed over the November 1978 - February/March 1979 period. Aanderaa RCM-4's were used, equipped with temperature and conductivity sensors. The instruments were located in March and divers were used to replace them.

78-0042 Soviet Ice Station NP-24

This ice island was initially occupied during the spring of 1978. Polar Record (1978) gives the start location as 330 km NE of Wrangel Island; however the atlas (Gorshkov, 1983) shows a start point west of 180° longitude. Areas of data collection and the location of the ice station after 1979 are unknown.

78-0043 Glacier - MIZPAC 78/Paquette and Bourke (1979), Small (1979)

As in 77-0049, the University of Washington portable CTD was used, both from the ship and by helicopter. Station positioning was mostly using the Omega system, accurate to ± 5 km. 2 CTD's were used, checked with bottle samples from just above the bottom.

78-0044 U.S. Navy/Ostlund (1982)

These data were collected by the U.S. nuclear submarine U.S.S. Pintado. Dr. Ostlund supplied 1-litre sample bottles and the Navy personnel collected the water samples. Analyses for salinity and tritium (no temperature) were made at the Rosenstiel School of Marine and Atmospheric Science, Miami. Salinity accuracy is estimated to be $\pm 0.02^{o}/oo$. The method of analysis is not stated.

78-0045 Oceanographic Services Inc. for Gulf/OSI (1979)

Measurement sites were selected to complement data collected by the University of Alaska (78-0033). The ice was bad that year and the measurement sites and data recovery differed significantly from the proposal. No further details are available. OSI and the funding oil companies (eight) have been approached for more information. Of the eight, Mobil (contact Bill Mitchell 214-658-4856) and Getty Oil (contact Ed Lilly 713-668-8400) have yet to respond to our request for release of the information.

78-0046 Alaska Department of Fish and Game

These data are on the NODC files, in the F123 bin. The agency is unspecified. Since Bendock was the primary fisheries investigator in this area, we suspect it was he that collected these data. It is not certain that temperature/salinity data were collected at each of the stations on file.

78-0047 University of Alaska

See 77-0063.

78-0059 University of Alaska?, OCSEAP

This was probably a cooperative program with Matthews' group (78-0036). Biology-oriented sampling was done for 3- to 4-day periods in Nov. 1978, and Feb., Mar. and May 1979 in Stefansson Sound; and during April through June 1980 just off Narwhal Island (80-0054). No primary reference has been found. The results are discussed in Horner and Schrader (1982).

The method of salinity determination is not stated. (For 80-0054 a salinity bridge was used.) Apparently for the 78-0059 data set, salinities were determined during May 15-20, 1979 only. For 80-0054, salinities were determined during Apr. 10-June 11, 1980. Samples were from near the bottom of the ice and from near the sea floor.

78-? Sever-30

No details are available. The air expedition is mentioned in Polar Record (1978, 1979).

79-0002 U.S. Coast Guard and CANMAR/Murphy et al. (1981, 1983)

Seven satellite-tracked drifters were released in open water north of the Tuktoyaktuk Peninsula. Five of the buoys moved west across 141°W longitude.

The drifters were designed and constructed at Scripps Institute of Oceanography and did not have drogues. Tracking was done using the RAMS system on board the NIMBUS 6 satellite. Advertized position accuracy was ± 5 km. On average, one good fix was obtained every 1.4 days.

79-0041 Prudhoe Bay Unit/Woodward-Clyde/Mangarella et al. (1979)

Seven ice stations were established 1-4 km off the west dock at Prudhoe Bay. Positions using a mini-ranger were estimated as being accurate to ± 3 m. Data were gathered at each station during 3 periods (Feb. 20-25, Mar. 19-24

and Apr. 23-30, 1979). Profiles of current, conductivity, temperature, dissolved oxygen and transmissivity were measured at each station. Also, recording current meters were moored at each of stations 2 through 7.

The moored current meters were Endeco 105 models, sampling every 30 minutes, mounted about 1.7 m above the bottom (1.1 m off bottom at station 2). The manufacturer specifies a speed accuracy of ±3% full scale. Instrument icing was observed by divers during the March and April servicings of the current meters at stations 3, 5 and 7. The meters became more buoyant and current measurements may have been affected. 99% of all speed measurements were less than 5 cm/s. Profiles of current were also obtained using an Endeco 110 with deck readout.

Temperature/salinity profiles were obtained using a Martek Mark VII "Water Quality Analyzer". Manufacturer-specified accuracies were ±0.1°C and ±0.07 mmho/cm.

No detailed station information was available for plots and listings.

79-0042 SOHIO, Nortec

Times are local AST.

79-0043 Woodward-Clyde/Chin (1980), Mangarella and Chin (1980)

A dye dispersion study was conducted on Aug. 30-31, 1979. A bivane drogue was used to provide reference. Profiles were made with a fluorometer, and a Martek Mark VII provided temperature and salinity data. An Endeco 105 current meter was also moored 1.2 m off bottom (30 minute sampling time).

In July and August, CTD and current profiles were obtained at 15 sampling stations. One current meter was moored July 25 - Aug. 15 and 4 during the period Aug. 15-31.

The primary references could not be obtained for detailed station information.

79-0045

Woodhead surface drifters were released during May 18-22 north of Beechey Point, and on May 24 north of Tigvariak Island.

79-0046 University of Alaska

Of the six moorings to be recovered in November, apparently only three were recovered. The Stefansson Sound mooring was serviced August 16 (and recovered in November ?); the Egg Channel mooring was recovered in November as was the one at Milne Point. The remaining three (Narwhal Island, Beechy 40 and 100) were not recovered in November 1979. Plans were to try again in 1980. The report of these results is presently unavailable.

79-0047 Kinnetic Labs, OCSEAP/Wilson et al. (1981a)

Three deployments of drifting buoys were made with 2 shore-based radio direction-finding stations used to track the buoys. Also, a small-scale drifter experiment was conducted in Prudhoe Bay to provide values of eddy diffusion coefficients for a model. The drogues for the diffusion experiment had 6-square-m (65-square-foot) sails.

79-0048 LGL, OCSEAP/Craig and Griffiths (1981a)

Two winter cruises (Nov. 1-17, 1979 and Apr. 29 - May 6, 1980) were conducted to sample fish and invertebrates. Temperature/salinity were also measured using unspecified equipment.

79-0049 U.S. Coast Guard

D. Murphy and I. Lissauer of the U.S. Coast Guard Research and Development Center deployed Woodhead drifters (plastic concave discs) at scattered sites north of Prudhoe Bay on July 12, 1979. The results are included in Matthews (1981a). Roughly 6% of the discs were recovered.

79-0050 LOREX Ice Station

The LOREX (Lomonosov Ridge Experiment, Weber, 1979) experiment included hydrographic casts and measurements from moored current meters.

At 2 sites, Aanderaa current meters were moored 25 and 200 m above the bottom. One of the deep current meters malfunctioned electronically and produced no useful data. The meters also recorded temperature.

Temperature/salinity observations were made by Robert Moore and Malcolm Lowings (Moore et al., 1983). Reversing thermometers were mounted on Niskin and Go-Flo bottles; salinity was determined using a portable Bissett-Berman inductively coupled salinometer. There were generally more than the 1 cast/day indicated here. The station locations were taken from Ostlund (1982). One location at latitude 86°N is suspect; it probably should be 89°N.

79-0057 Oceanographic Services Inc. (1980b)

A bottom mounted pressure sensor was used to measure wave and tide conditions in 13.7 m (45 feet) of water north of Reindeer Island. Currents were also measured using a SeaTrak Savonius-rotor and Endeco 105 current meters. The data are confidential but may be purchased for $45,000, presumably U.S. funds. The mooring was moved about 3 km by ice, damaging the near-surface current meter.

79-0058 'BEAUMOP', EXXON

Current measurements were made at one site in about 15 m of water, north of Reindeer Island (offshore Prudhoe Bay). This was part of the Beaumop program funded by a group of oil companies, including EXXON. The data are mentioned in a transcript of a technical seminar on gravel island design given by EXXON. The data are proprietary. Further inquiries should be directed to EXXON, Houston (Jim Bennett, 713-656-1904).

79-0061 University of Alaska

The method of temperature determination was not stated (Naidu, 1979).

79-? Sever-31

No details are available.

80-0001 U.S. Coast Guard, CANMAR/Murphy et al. (1983)

Eight buoys (four 30 m-drogued Polar Research Lab and 4 undrogued CANMAR design) were tracked using the ARGOS system. All were released in the MacKenzie Bay area, and 3 moved west across the 141°W meridian. It is unknown for how long the Polar Research Lab buoys retained their drogues, particularly since they were often in water too shallow for the 30-m drogue. Although the buoys were initially deployed in open water, they later became engulfed by newly-forming ice.

80-0037 LGL/OCSEAP/Craig and Griffiths (1981a, b)

Three cruises for fish and invertebrate studies in Harrison Bay were made by LGL personnel (Aug. 3-5, Aug. 7-9, Aug. 13-14). Surface and bottom temperatures and salinities were recorded at 32 stations using a YSI-33 salinity/conductivity meter. The specified accuracy was $\pm$0.6°C and $\pm$1.1°/oo. Station locations have been extracted from Figure 2 of Craig and Griffiths (1981a); exact dates of station occupation are not given.

80-0038 University of Alaska

These data are tabulated in Matthews (1981c). Current meters and tide gauges were deployed at nine sites in early August. The table indicates that all except one site were to be recovered in September. The Atigaru Point I mooring was apparently recovered July 1981. No report of results has yet been obtained. All stations are plotted and listed; however they may not all have been recovered.

80-0039 University of Alaska/Naidu et al. (1981)

Water samples were collected using a float plane (some samples were collected from west Harrison Bay using the R.V. D.W. Hood). Temperature was measured immediately after collection; 100-ml samples were then set aside for salinity determination at the Fairbanks Laboratory using a Beckman RC-19 conductivity bridge. The locations where samples were collected were not provided in Naidu et al. (1981). They have been extracted from Figure 1 and are accurate to about $\pm$1 minute.

80-0040 Kinnetic Lab.

A diffusivity experiment (similar to the one done in 1979, see data set 79-0047) was done in Harrison Bay using window-shade type curtain drogues. Tracking was done using a microwave range-range system.

80-0041 LGL, OCSEAP/Craig and Griffiths (1981a)

As part of a biological survey, surface and bottom temperature/salinity data were collected using a YSI-33 meter (specifications ±0.6°C and ±1.1°/oo).

80-0044 OSI for SOHIO/OSI (1980a)

A Sea Data burst-recording pressure gauge was moored 0.3 m off the bottom in 7.3 m of water, located about 9 km north of the Sagavanirktok River delta. The gauge measured waves, tides, surges and temperature for 32 days. The water pressure and temperature were measured every 7.5 minutes and waves every 3 hours, apparently using higher-frequency "burst" sampling.

80-0045 Soviet Aircraft Landings, Sever-32

During February - May 1980, 156 stations were surveyed (Polar Record, 1981). Chemical pollution was one of the subjects studied. No further details have been located.

80-0046 National Ocean Survey

The data were collected by the National Ocean Survey (formerly Coast and Geodetic Survey) and are now on file with the National Ocean Service, Maryland. No supporting documentation describing methods and accuracy has been found.

80-0047 University of Alaska

Salinity was determined along with nutrient concentrations. The data are to appear in a final OCSEAP report (in preparation). Further inquiries should be directed toward Dr. D. Schell of the University of Alaska (907-474-7115).

80-0048 APL Ice Camp/Garrison et al. (1982)

Data was collected from a drifting ice camp. A CTD developed by APL was used to obtain profiles about 3 times daily. Water samples for calibration were analyzed using precision laboratory conductivity cells. The temperature accuracy was checked against another thermistor. The temperature and conductivity measurements were not simultaneous in the identical water mass, but were matched in the analysis using a computer program.

Current profiles were also made using a Marsh-McBirney meter during Sept. 18-20.

Times in the report are given as local time, not GMT. Station locations were extracted from Figure 16.

80-0049 Polar Sea, SAI

These data were collected by Scientific Applications Inc. (SAI) personnel aboard the Polar Sea after the APL-University of Washington ice camp was established (see 80-0048). For convenience, the information was included in Garrison et al. (1982). John Newton of SAI was also to prepare a report. No instrument type or accuracy were specified.

80-0050 Oceanographic Services Inc. (1981b)

Waves, tides and currents were measured at 5 locations on the Alaskan shelf. Wind, barometric pressure and temperature were measured at Narwhal Island. Surge gauges were to be installed at 4 locations. Measurements extended from late August to October at 4 sites and into November at one site.

The data are considered confidential by EXXON until 1990 and they will not release any information. Jim Bennett of EXXON (713-656-1904) was the person contacted.

80-0054 University of Alaska, OCSEAP

See 78-0059.

81-0033 Woodward-Clyde for Prudhoe Bay Unit Owners/Mangarella et al. (1982)

The physical oceanography program was part of a multi-disciplinary study of the environmental effects of a waterflood extension project for the Prudhoe Bay oil field. Measurements included water level, CTD, drogues and current meters. The study area was primarily to the west of the causeway. Positioning was done using a Motorola Mini-Ranger. The shore transponders were either located on benchmarks, or their positions determined by surveying from a known benchmark.

CTD and CM station information was not received and therefore are not plotted or listed in this report. For further details contact J.M. Colonell (907-561-1020).

A. CTD

Conductivity and temperature were measured every 0.5 m using a Martek VIII Data Logger. Estimated accuracies were $\pm 0.1°C$ and ± 0.1 mmho/cm. The instrument was factory calibrated prior to use. Salinity was determined following Perkin and Walker (1972), with an estimated accuracy of ± 0.2°/oo.

B. Eulerian Currents

Aanderaa RCM-4's were used to measure speed, direction, temperature and conductivity. The instruments were calibrated by Aanderaa prior to deployment. Estimated accuracies are $\pm 0.15°C$, ± 0.02 mmho/cm and ± 1 cm/s or $\pm 2\%$ of the actual speed. One record provided conductivity only.

The meters were moored in water about 2 m deep. Mooring motion was minimized by using a rigid mooring. However, wave effects may still have contaminated the records and directions may be incorrect due to the proximity of the metal frames to the current meter compasses.

C. Water Level

A Sea Data model 635-11 was used to record water level. Water pressure fluctuation due to waves were sampled in a burst mode and those due to the tide were integrated over a 7.5 minute interval. Instrument sensitivity is about 1 millimetre equivalent water level.

D. Lagrangian Currents

Drifters, drogued between 0.5 and 2.0 m depth, were used to record near-surface drift.

81-0035 R.V. D.W. Hood, Kinnetic Labs/Wilson et al. (1981b, 1982)

An InterOcean model 513D CTD was used to collect temperature/salinity data. Surface water samples were collected for salinity calibration and reversing thermometers for temperature.

The types of moored current meters used were Aanderaa, Marsh-McBirney electromagnetic and General Oceanics.

A tide gauge, moored in Peard Bay, provided no useful data. Times were recorded in local (CAT) time.

81-0036 LGL for Department of Army Corps of Engineers/Griffiths and Gallaway (1982)

The main project involved fish monitoring, however temperature and salinity data were collected daily (July 3 - Sept. 13) using a YSI-33 meter. The specified accuracy is:

temperature - ± 0.1 at -2°C, ± 0.6 at 45°C
salinity - ± 0.9°/oo above 4°C, ± 1.0°/oo below 4°C.

Positions have been extracted from figures in the report and are considered accurate to about ± 1 minute.

81-0037 U.S. Coast Guard, Frozen Sea Research Group

The CTD program was the responsibility of the Frozen Sea Research Group at IOS (Melling, pers. comm.) whereas the current meter data were collected by the U.S. Coast Guard (Robe, 1982).

81-0038 U.S. Coast Guard/CANMAR/Murphy et al. (1983)

Eight undrogued drifters were released in the MacKenzie Bay area in the summer of 1981. Tracking was done using the ARGOS system. Only one buoy (2604) crossed the 141°W meridian. By this time, the buoy was in 9 to 10 tenths young ice.

81-0040 Soviet Aircraft Landings, Sever-33

As part of the Polex - Global Atmospheric Research Program, 150 stations were occupied (Polar Record, 1982). Methods, area, etc. are unknown.

81-0041 Submarine

Water samples were collected using a U.S. submarine (Ostlund, pers. comm.); however the location, dates, etc. have not yet been made available. Further inquiries should be directed to Dr. Ostlund at the Rosenstiel School of Marine Science, University of Miami (305-361-4100).

81-0042 Oceanographic Services Inc.

Waves, water level, currents and water temperature were measured at two locations in Harrison Bay (9-m and 18-m water depths) and at one location off Pingok Island (9 m). OSI collected the data and the program was funded by six oil companies. EXXON is respecting the 1992 confidentiality date and will not allow OSI to release any information. The person contacted at EXXON was Jim Bennett (713-656-1904).

81-0044 National Ocean Survey

The water level data are on file with the National Ocean Service. No details were provided.

81-0045 University of Alaska

See 80-0047.

81-0046 Harding Lawson for EXXON/Toimil and England (1982)

This study concerned the effects of a gravel island built to support a drill rig. Sea-Track current meters were used to measure currents, and divers collected water samples which were later analyzed for salinity. The method of salinity determination and the current meter specifications were not provided in Toimil and England (1982). The March current record was only three days long.

Sampling sites were closely spaced (about 200-300 m) around the island location; however only one location has been used, taken from a figure in the report.

81-0047 Northern Technical Services for ARCO/NORTEC (1982)

This was the first year of a 5-year program (NPDES) to monitor the marine environmental effects of the Waterflood project. Beginning August 1981, sampling programs were to be conducted every spring (April) and summer (August). Temperature/salinity data are collected along with the biological sampling. It is not clear from the report what instrument was used in 1981, but in August 1982, it was a YSI SCT meter. The reports do not specify time or day of measurements.

81-0048 University of Washington

The type and accuracy of instrumentation is unknown. Contact Dick Tripp (206-543-5334).

81-0049 Oceanographic Services Inc. for SOHIO/OSI (1981a)

A Sea Data pressure gauge was moored on the bottom, in 4.6 m of water, off the Sagavanirktok River delta. The gauge was set to burst-sample wave measurements every 3 hours and recorded water level (for tides) every 7.5 minutes, both to 1.5-mm accuracy. Water level was computed from measured pressure using the relationship: 1 m seawater = 100.71 mb. From a flow chart

in the report, it is implied that atmospheric pressure fluctuations were accounted for. The instrument also had a thermistor for temperature readings to 0.07°C accuracy.

81-0051 Woodward-Clyde Consultants/Colonell and Weingartner (1982a)

This was a survey of the lagoon, inshore of the barrier islands. Good data were obtained from four moored instruments and two sets of CTD casts at 29 stations on a 1 X 2 km grid spacing. Only the central location was provided, plotted and listed. Further inquiries should be directed to Jack Colonell of Woodward-Clyde Consultants, Anchorage (907-561-1020).

81-0052 Woodward-Clyde Consultants/Colonell and Weingartner (1982b)

Data were obtained from six moored instruments and one set of CTD casts at 49 stations on a 0.5 X 2.0 km grid spacing. All data were good except for portions of two current meter records, in which directions were biased by a magnet problem. Only the central location of the survey was provided, plotted and listed. Further inquiries should be directed to Jack Colonell of Woodward-Clyde Consultants, Anchorage.

81-? NP-25

The ice island was initially occupied 500 km NW of Wrangel Island (Polar Record, 1982). No further details are known.

82-0012 Northern Technical Service/SOHIO

Environmental studies related to the Endicott Development Project (just east of Prudhoe Bay) began in 1981. The 1982 results are presented in Britch et al. (1983).

301 CTD profiles were obtained using an InterOcean CSTD probe. The accuracies were given as ±0.05°C, ±0.05°/oo and ±1.0 m. No discussion of calibration techniques is provided.

Neil Brown ACM-2 acoustic current meters were deployed at 5 locations. They measured speed, direction, temperature and salinity. Manufacturer's specifications for accuracy were given as ±1 cm/s or 5%, ±2 degrees, ±0.5°C and ±0.03% full scale conductivity.

A Sea Data 635-11 tide gauge was also attached to mooring 2.

82-0013 LGL-NORTEC/SOHIO/Griffiths et al. (1983)

The study emphasis was on fish ecology. Water temperatures were measured using mercury in-glass thermometers (±0.5°C); salinity with a YSI-33 meter (±1.0°/oo), and turbidity with a Hach model 2100A Turbidimeter. Actual station locations, times, etc. were not specified. Station locations have been estimated based on Figure 3.3-1 and are accurate to about ±0.5 minute. In addition to the stations included here, temperature was measured daily at 6 gill-net stations and at the end of East Dock.

82-0014 SAI, OCSEAP/Hachmeister and Vinelli (1983)

This environmental survey covered the nearshore area east of Prudhoe Bay to the Yukon border. Two field studies were conducted to cover early summer (July - August 1982 ID 82-0014) and fall (September 1982 ID 82-0015) conditions. In general, estimates of data accuracy were unavailable.

Phase I: July 21 - Aug. 8, 1982

Three current meters (2 Aanderaa, 1 Neil Brown) were deployed in Angun Lagoon and Pokok Bay. An Aanderaa pressure gauge was also moored at the Angun Lagoon entrance. After 11 days, it was moved inside the lagoon. The Neil Brown was placed at the entrance to Angun Lagoon; the Aanderaas were placed inside the embayments, primarily for their temperature/salinity recordings. Their velocity records may be wave-contaminated. Also, the directional data for the Pokok Bay site may be useless.

Eight sets of surface and 5 sets of bottom drifters were deployed between July 26-29, 1982. The seabed drifters were umbrella-shaped and the surface drifters were yellow polypropylene, 6.4 cm x 8.9 cm (2.5" x 3.5").

82-0015 SAI, OCSEAP/Hachmeister and Vinelli (1983)

Phase II: Sept. 7-15, 1982 (see 82-0014 for Phase I)

Fourteen CTD profiles were obtained from a Zodiac in Angun Lagoon. The instrument and data quality is not specified. Only two nominal station locations, one for each transect, have been used here.

82-0016 University of Alaska/Schell et al. (1983)

Two field trips were made, primarily for biological studies (July 24 - Aug. 7 and Sept. 18-23). Water samples were analyzed for nutrients, etc. and temperature/salinity. No methods or accuracies are given. Station locations were extracted from figures in the report.

82-0017 LGL/Griffiths (1983)

As part of a fish study, temperature and salinity data were measured daily using in-glass mercury thermometers ($\pm$0.5°C) and a YSI-33 meter ($\pm$1.0°/oo). Station locations have been estimated (to about $\pm$1 minute) from Figure 3-1 of Griffiths (1983).

82-0026 University of Alaska

These data are not yet published. They should appear in a future OCSEAP report of principal investigators. Further inquiries should be directed to Dr. D. Schell, University of Alaska (907-474-7115).

82-0027 Oceanographic Services Inc.

Waves, water level, current and temperature were measured as in 1981 (see 81-0042). See comments under 81-0042; the confidentiality date for the 1982 data is 1993.

82-0030 NORTEC for ARCO/NORTEC (1982)

See 81-0047.

82-0031 NORTEC for ARCO/NORTEC (1983b)

This is the summer (August) sampling of the second year of the NPDES monitoring program (see 81-0047). A YSI SCT meter was used to measure conductivity and temperature.

82-0032 Kinnetic Laboratories Inc., EXXON

Apparently Kinnetic Laboratories did some work for EXXON in 1982. No report or reference to the data has been found. EXXON is very reluctant to release such information. Further inquiries should be directed to EXXON Production Research Co., Houston (Mr. B. Gordon, phone 713-940-4672).

82-0033 NORTEC for Shell/Northern Technological Service (1983a)

This study was designed to monitor physical and chemical effects associated with open-water disposal of drilling muds and cuttings at Tern Island. An Endeco 105 current meter was moored at 3.3 m depth in water 6.7 m deep. Full data recovery was obtained for the July 31 - Sept. 17 deployment period. As well, CTD profiles were made using an InterOcean CSTD during Aug. 26-27.

82-0043 Kinnetic Laboratories Inc., U.S. Army/Savoie and Wilson (1983)

This was a study of the effects of lengthening the West Dock at Prudhoe Bay. Aanderaa RCM-4 current meters, with conductivity and temperature probes, were deployed on each side of the causeway. An Endeco 105 was moored in the causeway breach.

A grid of 42 CTD stations was established. Sampling was done using a Beckman RS5-3 with a stated accuracy of $\pm$ 0.05^{o}/oo and $\pm$ 0.05°C. In addition to the grid of 42 stations, nineteen stations were sampled immediately to the west of the breach, to study a possible low-salinity plume there. The entire 42-station grid was sampled on each of the following days: July 24, 25, 26, 28 and 29; August 16, 17, 18, 19, 20; and September 13, 15.

82-0047 Woodward-Clyde Consultants/Colonell and Weingartner (1983)

Good data were obtained from six moored instruments and three sets of CTD casts at approximately 20 stations on a 2-km grid spacing. Only the central location of the survey was provided, plotted and listed. Further inquiries should be directed to Jack Colonell of Woodward-Clyde Consultants, Anchorage (907-561-1020).

82-0048 Woodward-Clyde Consultants/Critchlow (1983)

Although primarily a fish survey, surface temperature/salinity, current and water-level data were collected at several locations around Prudhoe Bay. Temperature/salinity data were obtained using either a Beckman CTD or a YSI SCT meter. Surface currents were measured using a drogue. No accuracies were given.

82-0050 USCG, Canmar

As in 1980 (80-0001) and 1981 (81-0038), satellite-tracked drifters were released off the Tuktoyatuk Peninsula. One of the drifters, F4506, moved west along the Alaskan slope region towards Point Barrow. It is not known if there were other drifters in this area. No data report has been received yet. Further enquiries should be directed towards Mr. J. Steen of Dome/Canmar (403-231-8009).

82-? Sever-34

No information available.

83-0004 Ice Station Cesar

This study was an expedition to study the Alpha Ridge. Scientists from the University of Washington moored current meters through the ice onto the ocean floor (R. Tripp, personal communication). The moorings were later located, released from bottom and recovered by divers under the ice. The rotor of the meter at the first mooring broke, reducing the record length.

CTD data were collected by the Frozen Sea Research Group at IOS (R. Perkin, personal communication) using a Guildline 8706 CTD. A twin Otter aircraft was used and positioning was achieved by means of the Global Navigation System.

83-0005 Arctic Sciences Ltd. Aircraft Survey/IOS

A Twin Otter aircraft was used for the survey. The CTD was a Guildline 8706 probe/87102 control unit. Descent rate was controlled so the response of the conductivity and temperature sensors would be best matched. Calibrations were made for pressure, temperature and salinity. Also, simultaneous casts were made with a Bayfield Laboratory CTD in order to compare results. Refer to Fissel et al. (1984) for more detail on methods and analyses.

83-0006 Discoverer/Hachmeister (1983)

This program was part of OCSEAP and involves 3 phases: Discoverer August 1983 (83-0006); Surveyor September 1983 (83-0011), and a planned helicopter survey in February 1984. Concurrent data was collected by EG & G at Peard Bay (83-0007).

CTD stations were occupied as well as surface temperature and salinity measurements. Accuracies are as yet unknown. Four current-meter moorings were deployed. Two were recovered during the second cruise. Both surface and bottom drifters were deployed nearshore.

83-0007 EG & G

This was a nearshore survey, complimentary to 83-0006. Two phone calls and a written request for information have failed to prompt any response from Mr. Bill Galhem of EG & G. Further enquiries should be directed toward Mr. Galhem, EG & G (617-890-3710).

83-0011 Surveyor/Vinelli (1983)

See also 83-0006.

Due to bad ice conditions, only 7 CTD casts were made (surface T/S data were collected between stations), no drifters were released and neither of current meter moorings 2 or 3 could be recovered (deployed as part of 83-0006). The CTD used was not specified in the cruise report.

83-0012 Harding Lawson for EXXON/Toimil and England (1983)

Water samples collected by divers were analyzed for salinity using a Grundy 6230N salinometer. Temperatures were near freezing.

83-0013 NORTEC for ARCO/NORTEC (1983b)

See 81-0047. In April 1983, salinities were determined using a Hydrolab digital 4041 meter.

83-0018 OSI

Apparently OSI collected data for some oil companies. The AOGA project number may be 213. No further details are known. The data are likely considered confidential by the oil companies.

83-0019 NORTEC

A current meter mooring was deployed in Harrison Bay. No information is yet available. Contact Mr. Britch, NORTEC, Anchorage (907-276-4302).

83-0020 Woodward-Clyde Consultants/Colonell and Berry (1983)

Good data were obtained from five moored instruments and 6 sets of CTD casts at 12 to 46 stations on a 1-km grid spacing. Only the central location of the survey was provided, plotted and listed. Further inquiries should be directed to Jack Colonell of Woodward-Clyde Consultants, Anchorage (907-561-1020).

83-0022 NORTEC (1984)

This was part of the continuing benthos monitoring program in the area of the Prudhoe Bay causeway. From August 26 to September 4, stations A-1 through A-12 and B-2 through B-7 were sampled. Between September 16 and 18, stations B-1, B-8 and C-1 through C-16 were sampled. The method/accuracies were not evident from Nortec (1984).

83-0032 USCG, Canmar

Drifters were again released in the Canadian Beaufort Sea (see 80-0001, 81-0038, and 82-0050). As well, 5 drifters were released near Harrison Bay (approx. 151°W). All 5 moved east; 3 of the 5 crossed 141°W into the Canadian Beaufort Sea. Since no data report has been received, it is unknown if further releases were made. Contact Mr. J. Steen of Dome/Canmar (403-231-8009).

83-? Sever-35

No details available.

APPENDIX 2

INFORMATION SOURCES: INSTITUTIONS, AGENCIES, OIL COMPANIES

Alaska Department of Fish and Game
1300 College Road
Fairbanks, Alaska
99701
907-452-1531

Alaska Oil & Gas Association
505 W. Northern Lights Blvd.
Suite 219
Anchorage, Alaska 99503
907-272-1481

AMOCO Oil Company
P.O. Box 800
1670 Broadway
Denver, Colorado
80202
Bob Nagel - 303-830-4218

ARCO Oil Company
P.O. Box 2819
Dallas, Texas
75221
Jerry Machemeho - 214-651-5880
Tom Mitchell - 214-880-5300

ARCO Alaska Inc.
P.O. Box 100360
Anchorage, Alaska 99510-0360
Richard Ogar - 907-276-1215

Institute of Marine Science 907-474-7824
Arctic Environmental Information & Data Center (University of Alaska)
707A Street
Anchorage, Alaska
99501
907-279-4523

Arctic Submarine Laboratory
Naval Undersea Research & Development Center
San Diego, California
92132
Waldo Lyon

Chevron Oil Field Research Company
P.O. Box 446
La Havre, California
90631
Larry Brooks - 213-694-7656

Defence Research Establishment Ottawa
Ottawa, Ontario
K1A 0Z4
613-992-8395

EG & G Environmental Consultants
151 Bear Hill Road
Waltham, Massachusetts
02254
Bill Galhem - 617-890-3710

EXXON Production Research Company
P.O. Box 2189
Houston, Texas
77001
Robert Haring - 713-940-3702
Jim Bennett - 713-656-1904

Getty Oil Company
6750 West Loop South
Belleair, Texas
7741
Ed Lilly - 713-668-8400

Gulf Research & Development Company
11000 South Wilcrest
P.O. Box 36506
Houston, Texas
77236
Brian Thomas - 713-754-5042

Institute of Ocean Sciences
P.O. Box 6000
Sidney, B.C.
V8L 4B2
604-656-8216

Kinnetic Laboratories Inc.
519 West Eighth Avenue, Suite 205
Anchorage, Alaska
99501
907-276-6178

Lamont-Doherty Geological Observatory
Columbia University
Palisades, New York
10964
Tom Manley - 914-359-2900

LGL Alaska
P.O. Box 80607
Fairbanks, Alaska
99708

Louisiana State University
Baton Rouge, Louisiana
70808-4105
H.J. Walker - 504-388-5942

Marathon Oil Company
P.O. Box 3128
Houston, Texas
77253
Owen Tibbetts - 713-6600

Marine Environmental Data Service (MEDS)
12th Floor West, 200 Kent Street
Ottawa, Ontario
K1A 0E6
613-995-2041

Mobil Research & Development Company
13777 Midway Road
Dallas, Texas
75234
Walt Spring - 214-851-8346

National Ocean Survey (formerly U.S. Coast & Geodetic Survey)
Washington Science Center
Rockville, Maryland
20852
Tidal Requirements Section - 301-443-8807

National Oceanographic Data Center (NODC)
National Oceanic and Atmospheric Administration
Code D761
2001 Wisconsin Avenue N.W.
Washington, D.C.
20235
202-634-7500

National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia
22161
703-487-4650

Naval Arctic Research Laboratory
Barrow, Alaska
99723

Northern Technical Services (NORTEC)
750 West 2nd Avenue, Suite 100
Anchorage, Alaska
99501
Bob Britch - 907-276-4302

Oceanographic Services Inc. (OSI)
25 Castilian Drive
Santa Barbara, California
93117
John Reh - 805-685-4521

Outer Continental Shelf Environmental Assessment Program (OCSEAP)
P.O. Box 1808
Juneau, Alaska
99802
Mauri Pelto - 907-586-7432

Rosenstiel School of Marine & Atmospheric Science
Univ. of Miami
Miami, Florida
33149
Dr. Ostlund - 305-361-4100

Science Applications Inc.
13400B Northrup Way, Suite 36
Bellevue, Washington
98005
Lon Hachmeister - 206-747-7152

Shell Oil Company
P.O. Box 481
Houston, Texas
77001
Ed Earle - 713-663-2454
Peter Arnold - 713-870-2447

SOHIO Alaska
Pouch 6-612
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SOHIO Petroleum Company
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Bob Potter - 214-387-5000

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345 Middlefield Road
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Peter Barnes

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Department of Oceanography
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Dick Tripp - 206-543-5334

University of Washington
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1013 NE 40th Street
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G.R. Garrison - 206-543-2100

Woodward-Clyde Consultants
701 Sesame Street
Anchorage, Alaska
99503
Jack Colonell - 907-561-1020

LIST OF ABBREVIATIONS USED IN THIS REPORT

APL	Applied Physics Laboratory, U. Washington, Seattle, Wash.
ARCO	Atlantic Richfield Oil Company
ASL	Arctic Sciences Ltd., Sidney, B.C.
BIO	Bedford Institute of Oceanography, Dartmouth, N.S.
CHS	Canadian Hydrographic Service
DREO	Defence Research Establishment Ottawa
DREP	Defence Research Establishment Pacific
EPA	Environmental Protection Agency
FSRG	Frozen Sea Research Group, Inst. Ocean Sci., Sidney, B.C.
H.L.	Harding Lawson Associates, Anchorage, Alaska
IOS	Institute of Oceanography, Sidney, B.C.
KINNETIC	Kinnetic Laboratories Inc.
LAMONT	Lamont-Doherty Geological Observatory, Palisades, N.Y.
LGL	LGL Consultants, Sidney, B.C.
LSU	Louisiana State University
MEDS	Marine Environmental Data Service, Ottawa, Ontario
NOAA	National Oceanic and Atmospheric Administration
NODC	National Oceanographic Data Centre, Washington, D.C.
NORTEC	Northern Technical Services, Inc., Anchorage, Alaska
NP	"North Pole" or "Severnyi Polyus" - Soviet ice stations
NRC	National Research Council
OCSEAP	(Alaska) Outer Continental Shelf Environmental Assessment Program
OSI	Oceanographic Services, Inc., Santa Barbara, California
PCSP	Polar Continental Shelf Program
SAI	Science Applications, Inc.
USCG	United States Coast Guard
USC&G	United States Coast and Geodetic Survey
USGS	United States Geological survey
WOOD-CLYDE or W.C.	Woodward-Clyde Consulants

Volumes available.

1. Beaufort Sea: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.

2. Beaufort Sea: Chemical Oceanography.

3. Northwest Passage: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.

4. Northwest Passage: Chemical Oceanography.

5. Baffin Bay: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.

6. Queen Elizabeth Islands: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.

7. Canada Basin-Arctic Ocean: Physical Oceanography - Temperature, Salinity, Currents and Water Levels.

POOR

QUALITY

ORIGINAL